CATALOGUE OF TYPE SPECIMENS OF RECENT MAMMALS IN THE AMERICAN MUSEUM OF NATURAL HISTORY

GEORGE G. GOODWIN

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GEORGE G. GOODWIN
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This page contains a list of mammal genera and their subgenera, along with references to type specimens. The page includes a variety of genera such as *Holochilus*, *Phyllotis*, *Hesperomys*, *Onychomys*, *Podoxymys*, *Ototylomys*, *Tylomys*, and *Zygodontomys*, among others. Each genus and subgenus is followed by a page number, indicating where more detailed information can be found. The page is part of a larger work, likely a scientific publication, focusing on mammal taxonomy and type specimens.
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INTRODUCTION

This is the first attempt to bring together and publish a catalogue of the type mammal specimens in the American Museum of Natural History.

The types, with the exception of those in the Archbold Collections, are kept in special locked storage cases in the Department of Mammals and are marked with red labels.

The present list records all the type specimens of recent mammals up to December 31, 1952, a total of 944, in the Museum collections. The skins of many of the earlier types have been made over or are in the process of renovation.

In the list of type specimens the order of arrangement follows the principles of classification of mammals by George G. Simpson (1945).

The species and subspecies are arranged in taxonomic order based on published records and on an examination of the specimens.

The name of each genus, species, and subspecies is recorded as in the original description, followed by a reference to the place and date of publication. A later name is preceded by an equals sign, followed by a citation of the authority for its use. Where the original name appears to be outdated but not so recorded in the literature, a more recent name is substituted, followed by comments on its use.

Where generic and specific names have been changed but not recorded for the particular species and subspecies listed here, a later name is added in brackets.

An author's name is placed in parentheses when the generic name that was used in the original description has been changed. A dagger, placed before the name, indicates that the type is fossil.

Citations are followed by the American Museum of Natural History catalogue number; the nature of the specimen, whether it is skin, skull, skin and skull, or preserved in alcohol (omission of mention of skin or skull indicates that it did not reach the museum); sex and age (omission of sex indicates that it is not definitely known); locality where taken; date when caught; name of collector; the original or field number; and condition of the specimen. Measurements are given as a means of identification. Where possible the field measurements of the skin are given. The three principal dimensions of the skull given have been checked and obvious errors corrected.

The type specimens are reserved for the use of qualified scientists at the Museum and are not permitted out on loan.

The number of type specimens of recent mammals in the American Museum of Natural History at the end of the year 1952 arranged by order and family is:

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\(^1\) No attempt is made to pass upon all current taxonomy.
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LIST OF TYPE SPECIMENS

Order MARSUPIALIA Illiger
Family DIDELPHIDAE Gray
Genus MONODELPHIS Burnett

Peramys brevicaudatus dorsalis J. A. Allen
= Monodelphis brevicaudata orinoci (Thomas).


Skin in good condition. Skull complete. Teeth showing some wear.

Measurements: Skin: total length, 8 1/2 inches; tail vertebrae, 31/8 inches. Skull: basal length, 32.5 mm.; zygomatic breadth, 19; length of upper tooth row, m1–m4, 7.5.

Genus GIIRONIA Thomas

Glironia aequatorialis Anthony


Skin in good condition. Skull broken in basicranial region but otherwise complete. Teeth showing some wear.

Measurements: Skin: total length, 430 mm.; tail vertebrae, 225; hind foot, 29. Skull: zygomatic breadth, 26.4 mm.; length of upper tooth row, m1–m4, 7.

Glironia criniger Anthony


Skin in good condition. Skull complete. Teeth showing slight wear.

Measurements: Skin: total length, 420 mm.; tail vertebrae, 220; hind foot, 31. Skull: condylobasal length, 43.7 mm.; zygomatic breadth, 10.6; length of upper tooth row, m1–m3, 6.6.

Genus MARMOSA Gray

Didelphis cinerea Temminck
Monographies de mammalogie, vol. 1, p. 46, 1824.

845. Skin. Adult male. Type locality fixed by Tate “Rio Mucuri, probably at or near Morro d’Arara, southeastern Brazil.” Collector: Maximilian Wied, between 1815 and 1817. Original number 33.

Skin without skull. In poor, faded condition due to long exposure as a mounted specimen. It still has attached Wied’s original label which bears the legend “No. 33 Mas Jupati,” and on the back of the label in another handwriting is written “Didelphys nudicaudatus.” In addition it bears the regular A.M.N.H. No. 845 label and a red type label. Under No. 845 in the catalogue is the following remark “Didelphys nudicaudatus. No. 33, Mas Jupati—Max. label ‘D. myosurus’ Max. Col. p. 32.”

Marmosa demararae arenicola Tate


Skin in good condition. Skull complete. Teeth showing little wear.

Measurements: Skin: total length, 402 mm.; tail vertebrae, 239; hind foot, 29. Skull: basal length, 38.1 mm.; zygomatic breadth, 23; length of upper tooth row, m1–m4, 7.3.

Marmosa demararae esmeraldae Tate


Skin in good condition. Skull complete. Teeth showing some wear.

Measurements: Skin: total length, 462 mm.; tail vertebrae, 264; hind foot, 32. Skull:
basal length, 44.3 mm.; zygomatic breadth, 26.6; length of upper tooth row, m1–m3, 7.7.

**Caluromys alstoni** J. A. Allen


Skin in good condition. Skull with a hole in interorbital region and posterior part behind the bullae cut off. Teeth and rest of skull complete.

**Measurements:** Skin: Total length, 430 mm.; tail vertebrae, 250; hind foot (s.u.), 25. Skull: zygomatic breadth, 25; length of upper tooth row, c–m3, 17.5.

**Marmosa perplexa** Anthony


Skin in good condition. Skull complete. Cranium originally crushed but now restored.

**Measurements:** Skin: total length, 305 mm.; tail vertebrae, 178; hind foot, 22. Skull: basal length, 44.3; zygomatic breadth, 26.6; length of upper tooth row, m1–m3, 7.7.

**Marmosa mapiriensis** Tate


Skin in good condition. Skull complete. Teeth showing some wear.

**Measurements:** Skin: total length, 364 mm.; length of tail vertebrae, 202; hind foot, 26. Skull: basal length, 37.8; zygomatic breadth, 24.3; length of upper tooth row, m1–m3, 7.2.

**Marmosa murina roraimae** Tate


**Measurements:** Skin: total length, 306 mm.; tail vertebrae, 184; hind foot, 22. Skull: basal length, 31.2; zygomatic breadth, 19.9; length of upper tooth row, m1–m3, 5.9.

**Marmosa klagesi** J. A. Allen


Skin in fair condition. Skull complete. Teeth showing slight wear.

**Measurements:** Skin: total length, 12 7/8 inches; tail vertebrae, 7 5/8 inches. Skull: basal length, 33.2; zygomatic width, 20.8; length of upper tooth row, m1–m3, 5.7.

**Marmosa murina duidae** Tate


Skin in good condition. Skull complete, originally left side broken but now restored. Teeth showing considerable wear.

**Measurements:** Skin: total length, 327 mm; tail vertebrae, 192; hind foot, 22. Skull: basal length, 35.1; zygomatic width, 21.1; length of upper tooth row, m1–m3, 6.1.

**Marmosa bombascarae** Anthony

Amer. Mus. Novitates, no. 32, pp. 5–6, March 4, 1922.

Skin in fair condition. Tail and feet damaged by ants. Skull complete.

Measurements: Skin: total length, 313 mm.; tail vertebrae, 187; hind foot, 21; Skull: basal length, 31; zygomatic breadth, 19.3; length of upper tooth row, m₁–m₄, 7.

*Marmosa rubra* Tate

Amer. Mus. Novitates, no. 493, p. 6, September 26, 1931.


Measurements: Skin: total length, 330 mm.; tail vertebrae, 190; hind foot, 22; Skull: basal length, 32.3; zygomatic width, 21.3; length of upper tooth row, m₁–m₄, 6.3.

*Marmosa tylerianna* Tate

Amer. Mus. Novitates, no. 493, pp. 6–7, September 26, 1931.


Measurements: Skin: total length, 286 mm.; tail vertebrae, 171; hind foot, 20; Skull: basal length, 29.5; zygomatic width, 17; length of upper tooth row, m₁–m₄, 5.7.

*Marmosa tylerianna phelpsi* Tate


Skin in good condition. Skull complete. Teeth showing little wear. Small incisors on left side of mandible lost.

Measurements: Skin: total length, 274 mm.; tail vertebrae, 162; hind foot (s.u.), 19; Skull: basal length, 33.2; zygomatic breadth, 19.6; length of upper tooth row, m₁–m₄, 6.1.

*Marmosa chapmani* J. A. Allen


Skin in fair condition. Skull complete. Teeth showing considerable wear.

Measurements: Skin: total length, 376 mm.; tail vertebrae, 201; hind foot, 25; Skull: basal length, 38.5; zygomatic breadth, 23.3; length of upper tooth row, m₁–m₄, 6.7.

*Didelphis (Micoureus) canescens* J. A. Allen


Skin in fair condition. Skull complete except for left side of mandible. Teeth showing some wear.

Measurements: Skin: total length, 267 mm.; tail vertebrae, 134; hind foot, 22; Skull: basal length, 31.6; zygomatic breadth, 20.3; length of upper tooth row, m₁–m₄, 5.8.

*Marmosa mexicana savannarum* Goldman


Skin in good condition. Skull complete. Measurements: Skin: total length, 267 mm.; tail vertebrae, 147; hind foot, 20; Skull: basal length, 28.5; zygomatic breadth, 16.7; length of upper tooth row, m₁–m₄, 7.
Thylamys keaysi J. A. Allen


Skin in fair condition. Epidermis has slipped on the rump, leaving a small bare patch. Skull complete. Teeth well worn.

MEASUREMENTS: Skin: total length, 14 inches; tail vertebrae, 8 inches; hind foot, 7/8 inch. Skull: basal length, 36.5 mm.; zygomatic breadth, 20; length of upper tooth row, m₁-m₄, 5.9.

Marmosa yungasensis Tate


Skin in good condition. Skull complete. Teeth showing some wear.

MEASUREMENTS: Skin: total length, 305 mm.; tail vertebrae, 169; hind foot, 17. Skull: basal length, 33.0; zygomatic breadth, 18.4; length of tooth row, m₁-m₄, 5.7.

Thylamys carri J. A. Allen and Chapman


Skin in good condition. Skull complete. Teeth showing some wear.

MEASUREMENTS: Skin: total length, 315 mm.; tail vertebrae, 175; hind foot, 22. Skull: basal length, 34; zygomatic breadth, 19; length of upper tooth row, m₁-m₄, 5.9.

Marmosa oroensis Anthony


Skin in good condition. Skull complete. Teeth unworn.

MEASUREMENTS: Skin: total length, 294 mm.; tail vertebrae, 170; hind foot, 20. Skull: basal length, 31; zygomatic breadth, 16.7; length of upper tooth row, m₁-m₄, 6.7.

Marmosa celicae Anthony
Amer. Mus. Novitates, no. 32, pp. 4-5, March 4, 1922.


Skin in good condition. Skull broken posteriorly.

MEASUREMENTS: Skin: total length, 278 mm.; tail vertebrae, 157; hind foot, 20. Skull: length of upper tooth row, c-m₄, 13.5; m₁-m₄, 6.5.

Marmosa caucaae uacayaliensis Tate
Amer. Mus. Novitates, no. 493, p. 9, September 26, 1931.


MEASUREMENTS: Skin: total length, 255 mm.; tail vertebrae, 145; hind foot, 19. Skull: basal length, 28.0; zygomatic breadth, 16.2; length of upper tooth row, m₁-m₄, 5.6.

Marmosa unduaviensis Tate
Amer. Mus. Novitates, no. 493, pp. 11-12, September 26, 1931.

72563. Skin and skull. Adult male. Pitiguaya, Rio Unduavi, Yungas, Bolivia. Altitude,

Skin in good condition. Skull broken through in orbital region but now repaired. Teeth showing little wear.

**Measurements:** Skin: total length, 222 mm.; tail vertebrae, 120; hind foot, 17. Skull: basal length, 26.5; zygomatic breadth, 15; length of upper tooth row, m1–m3, 5.

**Marmosa aceramarcus** Tate

Amer. Mus. Novitates, no. 493, p. 12, September 26, 1931.


Skin in good condition. Skull broken and repaired. Left zygomatic arch missing.

**Measurements:** Skin: total length, 195 mm.; tail vertebrae, 112; hind foot, 16. Skull: basal length, 23.6; length of upper tooth row, m1–m3, 4.7.

**Marmosa juninensis** Tate


Skin in good condition. Skull incomplete, occipital segments of skull and right side of mandible missing.

**Measurements:** Skin: total length, 246 mm.; tail vertebrae, 129; hind foot, 21. Skull: zygomatic breadth, 14.4; length of upper tooth row, m1–m3, 5.2.

**Genus Philander** Brissin

**Metachirus fuscogriseus** J. A. Allen


9920/8252. Skin and skull. Adult male. Presented by Albert Smith. The specimen was found alive in a bunch of bananas being unloaded in New York from a fruit steamer arriving from a Central American port, January 11, 1895. The type locality fixed by Allen as Greytown, Nicaragua. Skin in fair condition, feet and tail grease burnt. Skull complete.

**Measurements:** Skin: total length, 21 inches; tail vertebrae, 11 1/8 inches; hind foot, 1 5/8 inches. Skull: basal length, 61 mm.; zygomatic breadth, 32.5; length of upper tooth row, m1–m4, 14.5.

**Metachirus grisescens** J. A. Allen


= Philander opossum grisescens (Allen). Metachirus grisescens is a subspecies of Philander opossum.


**Measurements:** Skin: total length, 510 mm.; tail vertebrae, 240; hind foot, 38. Skull: basal length, 63.5; zygomatic breadth, 36.4; length of upper tooth row, m1–m4, 12.5.

**Genus Metachirus** Burmeister

**Metachirus tschudii** J. A. Allen


= Metachirus nudicaudatus tchudii Allen. Tschudii differs only subspecifically from nudicaudatus.


**Measurements:** Skin: total length, 500 mm.; tail vertebrae, 260; hind foot, 43. Skull: basal length, 52; zygomatic breadth, 26.7; length of upper tooth row, m1–m4, 10.5.

**Metachirus nudicaudatus colombianus** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 606 mm.; tail vertebrae, 310; hind foot, 45. Skull: basal length, 54.5; zygomatic breadth, 29.5; length of upper tooth row, m1–m4, 11.

**Metachirus nudicaudatus antioquiae** J. A. Allen


Skin in good condition. Skull complete except for upper left canine teeth. Teeth well worn.

Measurements: Skin: total length, 600 mm.; tail vertebrae, 312; hind foot, 50. Skull: basal length, 59; zygomatic breadth, 33.2; length of upper tooth row, m₃-m₄, 11.7.

**Genus** **DIDELPHIS** **Linnaeus**

*Didelphis marsupialis insularis* J. A. Allen


Skin in fair condition, made over, grease burnt about ankles. Skull complete except for left pm². Teeth showing considerable wear.

Measurements: Skin: total length, 910 mm.; tail vertebrae, 440; hind foot, 75. Skull: condylobasal length, 107 mm.; zygomatic breadth, 61.2; length of upper tooth row, c₃-m₄, 43.7.

*Didelphis karkinophaga colombica* J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: "2-81/2 L., 1–5 3/4 T., –9 3/4 G., –2 1/4." Skull: condylobasal length, 94.7 mm.; zygomatic breadth, 52.7; length of upper tooth row, c₃-m₄, 39.

*Didelphis karkinophaga caucae* J. A. Allen


Batty Parish Expedition number 239.

Skin in good condition. Skull complete.

Measurements: Skin: total length, 740 mm.; tail vertebrae, 370; hind foot, 48. Skull: condylobasal length, 93.3; zygomatic breadth, 50.2; length of upper tooth row, c₃-m₄, 39.5.

*Didelphis marsupialis etensis* J. A. Allen


Skin in fair condition, grease burnt, made over. Skull complete.

Measurements: Skin: total length, 850 mm.; tail vertebrae, 420; hind foot, 64. Skull: condylobasal length, 108.4; zygomatic breadth, 57.8; length of upper tooth row, c₃-m₄, 43.5.

*Didelphis pernigra* J. A. Allen


Skin in good condition. Skull complete. Teeth showing slight wear.

Measurements: Skin: total length, 29 1/2 [inches]; tail, 14 1/2; hind foot, 2 1/2. Skull: condylobasal length, 87.5 mm.; zygomatic breadth, 42.5; length of upper tooth row, c₃-m₄, 36.4.

**Family** **DASYURIDAE**

**Waterhouse**

**Genus** **ANTECHINUS** **MacLeay**

*Phascogale tafa* Tate and Archbold


A. L. Rand. Original number 1379.
Skin in good condition. Skull complete.

Measurements: Skin: total length, 279 mm.; tail vertebrae, 145; hind foot (s.u.), 25. Skull: basal length, 29.7; zygomatic breadth, 17.3; length of upper tooth row (crowns) m1–m3, 6.4.

Antechinus wilhelmina Tate

109811. Archbold Collections. Skin and skull.

Skin in good condition. Skull complete.
Measurements: Skin: total length, 238 mm.; tail vertebrae, 130; hind foot (s.u.), 20. Skull: condylobasal length, 28.6; zygomatic breadth, 17; length of upper tooth row, m1–m3, 5.4.

Antechinus tafa centralis Tate and Archbold
Amer. Mus. Novitates, no. 1101, p. 8, January 30, 1941.

= Antechinus mayeri centralis Tate and Archbold.

109823. Archbold Collections. Skin and skull.

Skin in good condition. Skull complete.
Measurements: Skin: total length, 281 mm.; tail vertebrae, 146; hind foot (s.u.), 26. Skull: condylo-incisive length, 34.3 mm.; zygomatic breadth, 19.2; length of upper tooth row, i1–m4, 17.6.

Antechinus habbema Tate and Archbold
Amer. Mus. Novitates, no. 1101, pp. 8–9, January 30, 1941.

= Antechinus mayeri centralis Tate and Archbold.

109812. Archbold Collections. Skin and skull.

Skin in good condition. Skull complete.
Measurements: Skin: total length, 252 mm.; tail vertebrae, 140; hind foot (s.u.), 21. Skull: condylo-incisive length, 29.6; zygomatic breadth, 6.5; length of upper tooth row, i1–m3, 14.6.

Genus PHASCOLOSOREX Matschke

Phascogale (Phascolosorex) dorsalis whartoni
Tate and Archbold
Amer. Mus. Novitates, no. 823, p. 4, March 9, 1936.


104046. Archbold Collections. Skin and skull.

Skin in fair condition. Skull with right malar missing.
Measurements: Skin: total length, 304 mm.; tail vertebrae, 131; hind foot, 24.7. Skull: basal length, 36.7; zygomatic breadth, 21; length of upper tooth row, m1–m3, 7.3.

Genus PLANIGALE Troughton

Planigale novaeguinae Tate and Archbold

108561. Archbold Collections. Skin and skull.

Skin in good condition. Skull with posterior half missing.
Measurements: Skin: total length, 170 mm.; tail vertebrae, 78; hind foot (s.u.), 14. Skull: length of upper tooth row, m1–m3, 4.3.

Genus SMINTHOPSIS Thomas

Phascogale rona Tate and Archbold

104005. Archbold Collections. Skin and skull.
Adult female. Rona, Laloki River, Central Division of Papua, British New Guinea.
Skin in fair condition. Skull with occipital region broken.

Measurements: Skin: total length, 226 mm.; tail vertebrae, 98; hind foot (s.u.), 21.
Skull: basal length, 25.3; zygomatic breadth, 16.3; length of upper tooth row, m¹–m⁴, 5.1.

Genus Murexia Tate and Archbold
Phascogale (Murexia) rothschildi Tate


Measurements: Skin (dry): total length, 370 mm.; tail vertebrae, 180; hind foot, 28.8.
Skull: greatest length, 43.5; zygomatic breadth, 23.7; length of upper tooth row, c–m⁴, 16.8.

Family PERAMELIDAE Waterhouse
Genus Echymipera Lesson
Echymipera orimo Echymipera Lesson
Amer. Mus. Novitates, no. 823, pp. 1–2, March 9, 1936.

104573. Archbold Collections. Skin and skull.
Skin in fair condition. Skull in fair condition.

Measurements: Skin: basal length, 52.3 mm.; zygomatic breadth, 24; length of upper tooth row, c–m⁴, 25.3; m¹–m³, 10.5.

Family CAENOLESTIDAE Trouessart
Genus Caenolestes Thomas
Caenolestes caniventer Anthony
Amer. Mus. Novitates, no. 20, p. 6, November 3, 1921.

Skin in good condition. Skeleton complete, foot bones in skin.

Measurements: Skin: total length, 256 mm.; tail vertebrae, 127; hind foot, 26.5.
Skull: condylobasal length, 32.5; zygomatic breadth, 16.3; length of upper tooth row, m¹–m³, 5.4.

Caenolestes convexus Anthony
Amer. Mus. Novitates, no. 120, pp. 1–3, June 21, 1924.

Skin in good condition. Skull complete.

Measurements: Skin: total length, 256 mm.; tail vertebrae, 124; hind foot, 29.
Skull: condylobasal length, 35.5; zygomatic breadth, 16.6; length of upper tooth row, m¹–m³, 6.

Caenolestes tatei Anthony

61860. Skin and skull with trunk in alcohol.
Skin in fair condition. The epidermis has slipped a little on the abdomen. Skull complete. Bones of feet in skin.

Measurements: Skin: total length, 213 mm.; tail vertebrae, 117; hind foot, 22. Skull: condylobasal length, 27.1 mm.; zygomatic breadth, 13.2; length of upper tooth row, m¹–m³, 4.7.

Family PHALANGERIDAE Thomas
Genus Phalanger Storr
Phalanger brevinasus Tate and Archbold

104100. Archbold Collections. Skin and skull.
Adult male. Mafulu, Central Division of Papua, British New Guinea. Altitude, 1250 meters. October 24, 1933. Collectors:

Skull in good condition. Skull complete, teeth well worn.

Measurements: Skin: total length, 835 mm.; tail vertebrae, 395; hind foot (s.u.), 57. Skull: basal length, 79; zygomatic breadth, 56.2; length of upper tooth row, p<sub>4</sub>–m<sub>4</sub>, 24.3, m<sub>1</sub>–m<sub>3</sub>, 15.8.

**Phalanger matsika** Tate and Archbold
Amer. Mus. Novitates, no. 810, pp. 7–8, July 19, 1935.


Measurements: Skin: total length, 775 mm.; tail vertebrae, 373; hind foot (s.u.), 58. Skull: basal length, 71.2; zygomatic breadth, 44.5; length of upper tooth row, p<sub>4</sub>–m<sub>4</sub>, 24.3.

**Phalanger microdon** Tate and Archbold

= **Phalanger orientalis mimicus** Thomas. According to Tate, Amer. Mus. Novitates, no. 1283, p. 12, April 27, 1945.


Measurements: Skin: total length, 720 mm.; tail vertebrae, 324; hind foot (s.u.), 54.8. Skull: basal length, 72.5; zygomatic breadth, 47.9; length of upper tooth row, p<sub>4</sub>–m<sub>4</sub>, 21.

**Phalanger orientalis peninsularis** Tate


Measurements: Skin: total length, 795 mm.; tail vertebrae, 345; hind foot, 57. Skull: condylobasal length, 81; zygomatic breadth, 50; length of upper tooth row, c–m<sub>4</sub>, 38.4.

**Phalanger celebensis pelengensis** Tate


Measurements: Skin: total length, 630 mm.; tail vertebrae, 266; hind foot, 47. Skull: condylobasal length, 66.5; zygomatic breadth, 42; length of upper tooth row, p<sub>4</sub>–m<sub>4</sub>, 19.

**Phalanger atrimaculatus** Tate


Measurements: Skin: total length, 1204 mm.; tail vertebrae, 610; hind foot (s.u.), 75. Skull: condylobasal length, 107; zygomatic breadth, 74; length of upper tooth row, c–m<sub>4</sub>, 56.5.

**Phalanger ursinus togianus** Tate


Measurements: Skin: total length, 1106 mm.; tail vertebrae, 542; hind foot, 104. Skull: condylobasal length, 93; zygomatic breadth, 60.5; length of upper tooth row, p<sub>4</sub>–m<sub>4</sub>, 31.

**Genus Petaurus Shaw**

*Petaurus (Petaurella) papuanus tafa* Tate and Archbold

104028. Archbold Collections. Skin and skull.

Skin in good condition. Skull with posterior parts broken.

**MEASUREMENTS:** Skin: total length, 290 mm.; tail vertebrae, 155; hind foot, 20.9. Skull: palatal length, 15.5; length of upper tooth row, p<sup>4</sup>-m<sup>3</sup>, 7.

*Petaurus* (Petarulla) *papuanus flavidus* Tate and Archbold

= *Petaurus breviceps flavidus* Tate and Archbold. According to Tate, Amer. Mus. Novitates, no. 1305, p. 9, December 29, 1945.

104465. Archbold Collections. Skin and skull.

Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 320 mm.; tail vertebrae, 171; hind foot, 24.3. Skull: occipitonasal length, 35.8; zygomatic breadth, 25.8; length of upper tooth row, p<sup>4</sup>-m<sup>3</sup>, 7.8.

**Genus DACTYLOPSILA** Gray

*Dactylopsila trivirgata infumata* Tate

107275. Archbold Collections. Skin and skull.

Skin in fair condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 764 mm.; tail vertebrae, 384; hind foot, 42. Skull: condylar length, 69; zygomatic breadth, 39; length of upper tooth row, p<sup>4</sup>-m<sup>4</sup>, 18.

**Genus PSEUDOCHIRUS** Ogilby

*Pseudochirus* (*Pseudochirulus*) *forbesi longipilis* Tate and Archbold

= *Pseudochirus forbesi longipilis* Tate and Archbold. According to Tate, Amer. Mus. Novitates, no. 1287, pp. 11–12, June 11, 1945.

104037. Archbold Collections. Skin and skull.

Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 515 mm.; tail vertebrae, 259; hind foot, 35.6. Skull: basal length, 46.2; zygomatic breadth, 29.2; length of upper tooth row, p<sup>4</sup>-m<sup>4</sup>, 14.6.

*Pseudochirus herbertensis cinereus* Tate

104114. Archbold Collections. Skin and skull.

Skin in good condition. Skull with part of left premaxilla missing.

**MEASUREMENTS:** Skin: total length, 705 mm.; tail vertebrae, 310; hind foot, 41.5. Skull: condylar length, 70.3; zygomatic breadth, 43.9; length of upper tooth row, p<sup>4</sup>-m<sup>4</sup>, 22.
Family MACROPODIDAE Owen

Genus THYLOGALE Gray

Macropus coxeni oriomo Tate and Archbold


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 965 mm.; tail vertebrae, 390; hind foot, 117. Skull: basal length, 95; zygomatic breadth, 52; length of upper tooth row, m¹–m³, 17.4.

Order INSECTIVORA Bowdich

Family ERINACEIDAE Bonaparte

Genus NEOTETRACUS Trouessart

Neotetracus sinensis cuttingi Anthony


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 175 mm.; tail vertebrae, 61; hind foot, 25. Skull: greatest length, 32; zygomatic breadth, 17.5; length of upper tooth row, 16.4.

Genus ERINACEUS Linnaeus

Erinaceus orientalis J. A. Allen


Skin in fair condition. Skull complete, except for one upper and two lower incisors, teeth well worn.

MEASUREMENTS: Skin: total length, 312 mm.; tail vertebrae, 42; hind foot, 50. Skull: condylobasal length, 61; zygomatic breadth, 39; length of upper tooth row, m¹–m³, 15.3.

Genus ATELERIX POMEL

Atelerix faradjius J. A. Allen


Skin in fair condition. Skull complete except for both last upper molars.

MEASUREMENTS: Skin: total length, 249 mm.; tail vertebrae, 19; hind foot, 29. Skull: condylobasal length, 44.7; zygomatic breadth, 27.6; length of upper tooth row, m¹–m³, 9.

Atelerix langi J. A. Allen


Skin in fair condition. Skull complete. Molars showing considerable wear.

MEASUREMENTS: Skin: total length, 195 mm.; tail vertebrae, 20; hind foot, 28. Skull: condylobasal length, 42.8; zygomatic breadth, 29; length of upper tooth row, m¹–m³, 9.

Family MACROSCELIDIDAE Mivart

Genus ELEPHANTULUS Thomas and Schwann

Elephantulus intufi mossamedensis Hill and Carter


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 235 mm.; tail vertebrae, 123; hind foot, 34. Skull: condylo-incisive length, 31.4; zygomatic breadth, 20.1; length of upper tooth row (maxillary alveoli), 13.
Family Soricidae Gray

Genus Sorex Linnaeus

Sorex buxtoni J. A. Allen

= Sorex macropygaeus macropygaeus Miller
According to Ognev, Mammals of eastern Europe and northern Asia, vol. 1, p. 229, 1928.


Skin in good condition. Skull complete. Large anterior tooth missing on upper left side.

Measurements: Skin: total length, 106 mm.; tail vertebrae, 34; hind foot, 14. Skull: greatest length, 17; zygomatic breadth, 8.2; length of upper tooth row, 7.

Sorex bedfordiae gomphus G. M. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 94 mm.; tail vertebrae, 39; hind foot, 13. Skull: greatest length, 16.6; greatest width, 8.0; length of upper tooth row, 7.

Sorex excelsus G. M. Allen


1 Ellerman and Morrison-Scott (Checklist of Palearctic and Indian mammals, p. 49, November 19, 1951) list buxtoni and macropygaeus under Sorex caecutiens Laxmann.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 111 mm.; tail vertebrae, 51; hind foot, 13. Skull: greatest length, 18.7; breadth of braincase, 8.6; length of upper tooth row, 8.2.

Sorex gravesi Goodwin
Amer. Mus. Novitates, no. 657, pp. 1–2, September 8, 1933.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 100 mm.; tail vertebrae, 35; hind foot, 15. Skull: condylobasal length, 19.2; greatest breadth of braincase, 9.5; length of maxillary tooth row, 8.6.

Sorex cinereus ugyunak Anderson and Rand


Skin in fairly good condition. Skull lacking teeth and left side of mandible.

Measurements: Skin: total length, 89 mm.; tail vertebrae, 25; hind foot, 11. Skull: condylobasal length, 15.1; cranial breadth, 7.3; length of maxillary tooth row, 3.9.

Sorex gaspensis Anthony and Goodwin
Amer. Mus. Novitates, no. 109, pp. 1–2, March 10, 1924.


1 Ellerman and Morrison-Scott (Checklist of Palearctic and Indian mammals, p. 53, November 19, 1951) list gravesi under araneus Linnaeus.
Skin in good condition. Skull complete but slightly pressed out of shape in left pterygoid region.

MEASUREMENTS: Skin: total length, 102 mm.; tail vertebrae, 47; hind foot, 10.5. Skull: greatest length, 16.9; breadth of braincase, 7.4; length of upper tooth row, 6.9.

**Genus SORICULUS** Blyth

*Soriculus caudatus umbrinus* G. M. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 115 mm.; tail vertebrae, 55; hind foot, 12. Skull: greatest length, 18.1; mastoid width, 9; length of upper tooth row, 8.1.

**Subgenus CHODSIGOA** Kashtchenko

**Chodsigoa hyspibia parva** G. M. Allen


Skin in good condition. Skull fragmentary.

MEASUREMENTS: Skin: total length, 98 mm.; tail vertebrae, 44; hind foot, 11.5. Skull: length of upper tooth row, 6.6.

**Chodsigoa smithii parca** G. M. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 161 mm.; tail vertebrae, 91; hind foot, 17.5. Skull: greatest length, 19.3; greatest breadth, 9; length of upper tooth row, 8.5.

**Chodsigoa smithii furva** Anthony


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 158 mm.; tail vertebrae, 87; hind foot, 18. Skull: greatest length, 21; width of braincase, 9.5; length of upper tooth row, 9.

**Genus BLARINA** Gray

**Blarina costaricensis** J. A. Allen

=Blarina breviceuda (Say). According to Merriam, North Amer. Fauna, no. 10, p. 10, December 31, 1895. Merriam gives the locality as upper Mississippi Valley where Cherrie lived before he went to Costa Rica. The specimen had no label when it reached Allen. This determination is questioned by Allen (Bull. Amer. Mus. Nat. Hist., vol. 9, p. 34, March 11, 1897), for he quotes Cherrie’s reiteration of his statement that the specimen was taken by himself in Costa Rica at the locality stated and that an error was impossible.


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 117 mm.; tail vertebrae, 28; hind foot, 15.2. Skull: total length, 23.5; greatest width, 12.2; length of upper tooth row, 10.5.

**Genus CRYPTOTIS** Pomel

**Blarina montivaga** Anthony
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 Cryptotis montivaga (Anthony). Cryptotis is the current generic name for the little short-tailed shrew.


Measurements: Skin: total length, 112 mm.; tail vertebrae, 31; hind foot, 15. Skull: greatest length, 22; mastoid width, 10.5; length of upper tooth row, 9.7.

Blarina (Cryptotis) squamipes J. A. Allen

Cryptotis squamipes (Allen). Cryptotis is now recognized as a full genus.


Measurements: Skin: total length, 128 mm.; tail vertebrae, 42; hind foot, 18. Skull: length of upper tooth row, 10.5.

Blarina (Soriciscus) nigrescens J. A. Allen


Skin in fair condition, epidermis slipped on abdomen. Skull complete.

Measurements: Skin: total length, 87 mm.; tail vertebrae, 22; hind foot, 12. Skull: total length, 20; width of braincase, 9.5; upper tooth row, 9.

Blarina (Soriciscus) orophila J. A. Allen


Skin, a dried mummy, originally in alcohol. Skull imperfect, lacking braincase; dentition complete.

Measurements: Skin: total length, 76 mm.; tail vertebrae, 21; hind foot, 11. Skull: length of upper tooth row, 8.

Blarina olivacea J. A. Allen


Skin in fair condition. Skull incomplete, lacking parietal and occipital portions.

Measurements: Skin: total length, 80 mm.; tail vertebrae, 17; hind foot, 10. Skull: length of upper tooth row, 7.5.

Genus CROCIDURA Wagler

Crocidura kijabae J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 201 mm.; tail vertebrae, 78; hind foot (dry), 20. Skull: greatest length, 30; greatest breadth, 12; length of upper tooth row, 14.1.

Crocidura oritis Hollister


Skin in good condition. Skull complete.

Measurements: Skin: total length, 159 mm.; tail vertebrae, 65; hind foot, 18. Skull: greatest length, 23.4; greatest breadth, 10.2; length of upper tooth row, 10.4.
Crocidura caliginea Hollister

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 125 mm.; tail vertebrae, 54; hind foot, 12. Skull: condylo-incisive length, 21.3; greatest breadth, 9.5; length of upper tooth row, 10.

Crocidura latona Hollister

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 135 mm.; tail vertebrae, 59; hind foot, 14. Skull: condylo-incisive length, 19.8; greatest breadth, 8.9; length of upper tooth row, 8.7.

Crocidura ludia Hollister

Skin in good condition. Skull damaged in occipital region.
MEASUREMENTS: Skin: total length, 120 mm.; tail vertebrae, 60; hind foot, 14. Skull: condylo-incisive length, 18.2; greatest breadth, 8.2; length of upper tooth row, 7.8.

Crocidura polia Hollister

Skin in good condition. Skull complete, fair condition.
MEASUREMENTS: Skin: total length, 130 mm.; tail vertebrae, 72; hind foot, 13. Skull: condylo-incisive length, 18.2; greatest breadth, 8.2; length of upper tooth row, 7.8.

Crocidura congobelgica Hollister

Skin in good condition. Skull incomplete, damaged in occipital region.
MEASUREMENTS: Skin: total length, 133 mm.; tail vertebrae, 59; hind foot, 14. Skull: length of upper tooth row, 9.1.

Crocidura luimbalensis Hill and Carter

Skin in fair condition. Skull incomplete, lacking occipital region, hook on first upper left incisor broken.
MEASUREMENTS: Skin: total length, 148 mm.; tail vertebrae, 45; hind foot, 13. Skull: basal length, 21.4; greatest breadth, 10.4; length of upper tooth row, 10.4.

Crocidura cuanzensis Hill and Carter

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 117 mm.; tail vertebrae, 35; hind foot, 14.9 (12 mm. in dried skin). Skull: condylo-incisive length, 20.8; greatest breadth, 9.4; length of upper tooth row, 9.

Crocidura chitauensis Hill and Carter

Skin in good condition. Skull complete except for bullae.
Measurements: Skin (dry): total length, 105 mm.; tail vertebrae, 30; hind foot, 11.7. Skull: condylo-incisive length, 20; greatest breadth, 8.9; length of upper tooth row, 8.8.

_Crocidura dracula manusumensis_ Carter


Skin in good condition. Skull complete except for bullae.

Measurements: Skin: total length, 152 mm.; tail vertebrae, 57; hind foot, 13 (dry, 15.5). Skull: greatest length, 22.7; greatest breadth, 10; length of upper tooth row, 10.2.

_Crocidura lar_ G. M. Allen


= _Crocidura suaveolens lar_ Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 78, November 19, 1951.


Skin in good condition. Skull apparently lost in the field.

Measurements: Skin: total length, 89 mm.; tail vertebrae, 29; hind foot, 12.

_Crocidura suaveolens mordenii_ Goodwin
Amer. Mus. Novitates, no. 742, p. 1, August 27, 1934.

= _Crocidura suaveolens suaveolens_ Pallas. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 76, November 19, 1951.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 90 mm.; tail vertebrae, 30; hind foot, 12.5. Skull: condylobasal length, 16.8; greatest breadth, 8.2; length of upper tooth row, 7.9.

_Crocidura hyrcania_ Goodwin
Amer. Mus. Novitates, no. 1062, pp. 1–2, July 18, 1940.

= _Crocidura (_) suaveolens hyrcania_ Goodwin. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 78, November 19, 1951.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 100 mm.; tail vertebrae, 40; hind foot, 13. Skull: greatest length, 17.5; greatest breadth, 8.25; length of upper tooth row, 7.7.

_Crocidura ilensis phaeopus_ G. M. Allen

= _Crocidura suaveolens phaeopus_ Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 78, November 19, 1951.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 99 mm.; tail vertebrae, 37; hind foot, 12. Skull: greatest length, 16.9; breadth of braincase, 7.6; length of upper tooth row, 7.3.

_Crocidura rapax_ G. M. Allen

= _Crocidura russula rapax_ Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 81, November 19, 1951.


Skin in good condition. Skull complete.
Measurements: Skin: total length, 106 mm.; tail vertebrae, 42; hind foot, 12.5.
Skull: greatest length, 18; greatest breadth, 8.2; length of upper tooth row, 8.

Crocidura vorax G. M. Allen
= Crocidura russula vorax Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 80, November 19, 1951.

Skin in good condition. Skull complete.
Measurements: Skin: total length, 123 mm.; tail vertebrae, 51; hind foot, 13. Skull: greatest length, 19.8; greatest breadth, 9; length of upper tooth row, 8.3.

Crocidura astrabadensis Goodwin
Amer. Mus. Novitates, no. 1082, p. 3, July 18, 1940.

Skin in good condition. Skull complete.
Measurements: Skin: total length, 100 mm.; tail vertebrae, 32; hind foot, 12.
Skull: greatest length, 17.7; greatest breadth, 8.5; length of upper tooth row, 7.85.

Genus ANOUROSOREX Milne-Edwards

Anourosorex squamipes capnias G. M. Allen

Skin in good condition. Skull complete.
Measurements: Skin: total length, 90 mm.; tail vertebrae, 14; hind foot, 13. Skull: greatest length, 23.3; greatest breadth, 12.2; length of upper tooth row, 11.

Anourosorex assamensis capito G. M. Allen

Skin in good condition. Skull complete.
Measurements: Skin: total length, 93 mm.; tail vertebrae, 16; hind foot, 16.5.
Skull: greatest length, 25.8; greatest width, 13.6; length of upper tooth row, 11.7.

Family TALPIDAE Gray

Genus UROPSILUS Milne-Edwards

Rhynchonax andersoni atronates G. M. Allen
= Uropsilus soricipes andersoni Thomas. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 32, November 19, 1951.

1 It is possible that this form represents Crocidura russula caspica Thomas.

Skin in good condition. Skull complete.

Measurements: Skin: total length, 124 mm.; tail vertebrae, 57; hind foot, 14.1. Skull: greatest length, 20.5; greatest width, 11; length of upper tooth row, 8.8.

Rhynchonax andersoni nivatus G. M. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 128 mm.; tail vertebrae, 60; hind foot, 15. Skull: greatest length, 20; greatest width, 11; length of upper tooth row, 9.

Genus SCAPANUS POMEL

Scapanus anthonyi J. A. Allen


Skin in good condition. Skull complete. Teeth well worn.

Measurements: Skin: total length, 135 mm.; tail vertebrae, 26; hind foot (relaxed), 17. Skull: greatest length, 30.1; greatest width, 15.2; length of upper tooth row, 12.7.

Genus SCALOPUS GEOFFROY

Scalops aquaticus australis Chapman


Skin in good condition. Skull complete.

Measurements: Skin: total length, 148 mm.; tail vertebrae, 22; hind foot, 17. Skull: greatest length, 31; greatest breadth, 16; length of upper tooth row, 12.5.

Scalops argentatus texanus J. A. Allen


Skin in fair condition. Skull incomplete behind interorbital region; dentition complete, well worn.

Measurements: Skin: (dry), total length, 124 mm.; tail vertebrae, 24; hind foot, 16. Skull: length of upper tooth row, 15.

Scalopus aquaticus allenii Baker


Skin in good condition. Skull complete.

Measurements: Skin: (dry), total length, 129.5; tail vertebrae, 27.5; hind foot, 17 (original label gives measurements as 550, 100, 70). Skull: greatest length, 31; greatest breadth, 16.7; length of upper tooth row, 14.

Order CHIROPTERA BLUMENBACH

Family PTEROPIDAE GRAY

Genus PTEROPUS BRISSON

Pteropus goweri Tate

87201. Skin and skull. Adult male. Gower Island, Solomon Islands. September 19,
MEASUREMENTS: Skin: head and body, 189 mm.; hind foot, 43; forearm, 108. Skull: greatest length, 56.5; zygomatic width, 31.3; length of upper tooth row, 26, c–m³, 22.

Pteropus tokudaei Tate
Amer. Mus. Novitates, no. 713, pp. 1–2, April 11, 1934.

MEASUREMENTS: Skin: head and body, 141 mm.; hind foot, 36; forearm, 91. Skull: greatest length, 42; zygomatic breadth, 23.2; length of upper tooth row, 17.4.

Pteropus macmillani Tate

MEASUREMENTS: Skin (dry): head and body, 200 mm.; hind foot, 38.5; forearm, 110. Skull: greatest length, 50; zygomatic width, 27, length of upper tooth row, 22.

Pteropus banksiana Sanborn

MEASUREMENTS: Skin: forearm, 117.5. Skull: greatest length, 57; zygomatic width, 31.7; upper tooth row, 25.4.

Pteropus nitendiensis Sanborn

MEASUREMENTS: Skin: head and body, 8 inches; forearm, 121 mm. Skull: greatest length, 54.8; zygomatic width, 33; length of upper tooth row, c–m³, 21.4.

Genus Paranyctimene Tate

Paranyctimene raptor Tate

MEASUREMENTS: Skin: head and body, 79 mm.; tail vertebrae, 13; hind foot, 10; forearm, 47. Skull: greatest length, 24.5; zygomatic breadth, 16.0; length of maxillary tooth row, 8.

Family Emballonuridae Dobson

Genus Saccopteryx Illiger

Saccopteryx perspicillifer Miller

MEASUREMENTS: Skin: total length, 70 mm.; tail vertebrae, 18; hind foot, 9.4; forearm, 47.5. Skull: greatest length, 17.8; zygomatic breadth, 10.7; length of upper tooth row, 7.1.

Genus Peropteryx Peters

Peropteryx trinitatis Miller
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Skin in alcohol. Skull incomplete, braincase broken, dentition complete.

**MEASUREMENTS:** Skin: total length, 60 mm.; tail vertebrae 14.4; hind foot, 41. Skull: greatest length, 13.8; length of upper tooth row, 5.4.

**Genus Taphozous** Geoffroy

**Taphozous troughtoni** Tate


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 128 mm.; tail vertebrae, 35; hind foot (s.u.), 15; forearm, measured in field, 76, dry, 74.5. Skull: condylobasal length, 24.1; zygomatic breadth, 15; length of upper tooth row, c–m³, 11.

**Family Nycteridae** Dobson

**Genus Nycteris** Cuvier and Geoffroy

**Nycteris avakubia** J. A. Allen


Skin and body in alcohol. Skull complete, cleaned.

**MEASUREMENTS:** Skin: total length, 137 mm.; tail vertebrae, 65; hind foot, 12; forearm, 50. Skull: greatest length, 22.2; zygomatic breadth, 12.5; length of upper tooth row, 7.5.

**Nycteris pallida** J. A. Allen


**MEASUREMENTS:** Skin: total length, 92 mm.; tail vertebrae, 45; hind foot, 10; forearm, 40. Skull: greatest length, 17.4; zygomatic breadth, 10.2; length of upper tooth row, c–m³, 6.5.

**Family Rhinolophidae** Bell

**Genus Rhinolophus** Lacépède

**Rhinolophus abae** J. A. Allen


Skin in good condition. Skull complete, braincase slightly crushed.

**MEASUREMENTS:** Skin: total length, 85 mm.; tail vertebrae, 24; hind foot, 12; forearm, 51. Skull: greatest length, 22.3; zygomatic breadth, 11.9; length of upper tooth row, c–m³, 8.

**Rhinolophus axillaris** J. A. Allen


Skin in good condition. Skull incomplete, badly crushed behind interorbital region.

**MEASUREMENTS:** Skin: total length, 77 mm.; tail vertebrae, 25; hind foot, 11; forearm, 45.5. Skull: length of upper tooth row, c–m³, 7.

**Rhinolophus blythi calidus** G. M. Allen

Amer. Mus. Novitates, no. 85, pp. 1–2, August 28, 1923.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: forearm, 38 mm.; hind foot, 7. Skull: total length, 16 mm.; greatest breadth, 7.7; length of upper tooth row, 5.7.

**Rhinolophus blythi parcus** G. M. Allen


Skin in good condition. Skull complete but broken and repaired in occipital region.

**MEASUREMENTS:** Skin: forearm, 36.3 mm.; hind foot, 6.8. Skull: greatest length, 16.5; zygomatic breadth, 7.3; length of upper tooth row, c–m³, 5.7.

**Rhinolophus episcopus** G. M. Allen


= **Rhinolophus macrois episcopus** Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 122, November 19, 1951.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 75 mm.; tail vertebrae, 24; hind foot, 10; forearm, 47.5. Skull: greatest length, 19.4; zygomatic breadth, 9; length of upper tooth row, c–m³, 7.

**Rhinolophus episcopus caldwelli** G. M. Allen


= **Rhinolophus macrois caldwelli** Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 122, November 19, 1951.


Skin in fair condition, wings damaged. Skull complete.

**MEASUREMENTS:** Skin: forearm, 43 mm.; hind foot, 9. Skull: greatest length, 19; zygomatic breadth, 7.8; length of upper tooth row, c–m³, 6.

**Rhinolophus hainanus** J. A. Allen


Skin in fair condition. Skull incomplete, lacking under side of braincase.

**MEASUREMENTS:** Skin: forearm, 50 mm. Skull: greatest length, 22; greatest breadth, 10.5; length of upper tooth row, c–m³, 9.2.

**Rhinolophus lanosus spurcus** G. M. Allen


= **Rhinolophus luctus spurcus** Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 122, November 19, 1951.


Skin in good condition. Skull complete except for premaxillae.

**MEASUREMENTS:** Skin: forearm, 70 mm. Skull: greatest length, 31.3; zygomatic breadth, 15.5; length of upper tooth row, c–m³, 11.3.

**Rhinolophus maros** Tate

Amer. Mus. Novitates, no. 1036, p. 9, August 11, 1939.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: forearm, 53 mm.
Skull: greatest length, 23.2; breadth of brain-case, 9; length of maxillary tooth row, 8.1.

**Rhinolophus maros robertsi** Tate


Skull complete.

**MEASUREMENTS:** Skin: total length, 79 mm.; tail vertebrae, 25; hind foot, 10. Skull: condylo-canine length, 20.9; zygomatic breadth, 11.1; length of upper tooth row, 3.8.

**Rhinolophus padi** Tate
Amer. Mus. Novitates, no. 1036, pp. 7–8, August 11, 1939.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: forearm, 36.2 mm. Skull: greatest length, 16.4; breadth of brain-case, 7.1; length of maxillary tooth row, c–m³, 6.

**Rhinolophus rex** G. M. Allen


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: head and body, 55 mm.; tail, 38; hind foot, 10; forearm, 58. Skull: occiput to front of canines, 22; zygomatic width, 10; length of upper tooth row, c–m³, 8.

**Rhinolophus ruwenzorii** Hill


Skin and body in alcohol. Skull removed, complete.

**MEASUREMENTS:** Skin: head and body, 67 mm.; tail, 31; hind foot (s.u.), 12; forearm, 57. Skull: greatest length, 25.9; zygomatic breadth, 11.2; length of upper tooth row, c–m³, 8.3.

**Genus Hipposideros** Gray

**Hipposideros abae** J. A. Allen


Skin in good condition. Skull complete except for premaxillaries.

**MEASUREMENTS:** Skin: total length, 104 mm.; tail, 38, hind foot, 12; forearm, 58.5. Skull: total length, 22; zygomatic breadth, 13; length of upper tooth row, c–m³, 8.2.

**Hipposideros bicolor macrobullatus** Tate


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: head and body, 52 mm.; tail, 33; hind foot, 7; forearm, 42. Skull: greatest length, 16.7; zygomatic breadth, 8.2; length of maxillary tooth row, 5.6.

**Hipposideros breviceps** Tate


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: head and body, 42 mm.; tail, 23; hind foot, 7; forearm, 43. Skull: greatest length, 16.9; zygomatic breadth, 9.5; length of maxillary tooth row, c–m³, 5.8.
**Hipposideros caffer** J. A. Allen  


Skin and body in alcohol. Skull removed, complete.

**Measurements:** Skin: total length, 88 mm.; tail, 30; hind foot, 10.8; forearm, 54.5. Skull: total length, 20.3; zygomatic breadth, 10.5; length of maxillary tooth row, 6.8.

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**Hipposideros nanus** J. A. Allen  


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 137 mm.; tail, 30; hind foot, 25; forearm, 104. Skull: greatest length, 34.5; zygomatic breadth, 19.6; length of maxillary tooth row, 13.5.

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**Hipposideros gigas niangarae** J. A. Allen  


Skin and body in alcohol. Skull removed, complete.

**Measurements:** Skin: total length, 68 mm.; tail, 22; hind foot (c.u.), 7.9; forearm, 43.4. Skull: greatest length, 16; greatest breadth, 9; length of maxillary tooth row, 5.8.

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**Hipposideros poutensis** J. A. Allen  


**Measurements:** Skin: head and body, 62 mm.; tail, 28; hind foot, 9; forearm, 60. Skull: greatest length, 23.5; zygomatic breadth, 13; length of maxillary tooth row, 9.

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**Genus COELOPS** Blyth

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**Coelops sinicus** G. M. Allen  


Skin in good condition. Skull complete.

**Measurements:** Skin: head and body, 38 mm.; approximate tail length, 4; hind foot, 10; forearm, 35.5. Skull: greatest length, 17; zygomatic breadth, 7.8; length of maxillary tooth row, 6.4.

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**Family PHYLLOSTOMATIDAE** Coues and Yarraw

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**Genus CHILONYCTERIS** Gray

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**Chilonycteris rubiginosa fusca** J. A. Allen  

31561. Skin and skull. Adult male. Las

Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 93 mm.; tail, 25; forearm, 58.7. Skull: greatest length, 22; greatest breadth, 12; length of maxillary tooth row, 9.4.

**GENUS PTERONOTUS GRAY**

**Dermonotus suapurensis** J. A. Allen


Skin in fair condition. Skull complete.

**MEASUREMENTS:** Head and body, 2 1/2 inches; tail, 1 inch; forearm, 51 mm. Skull: total length, 17.2 mm.; greatest breadth, 10; length of maxillary tooth row, 7.4.

**Pteronotus suapurensis centralis** Goodwin


Skin in fair condition. Skull complete.

**MEASUREMENTS:** Skin: forearm, 53.5 mm. Skull: greatest length, 17.9; greatest breadth, 10.5; length of maxillary tooth row, 7.5.

**GENUS MICRONYCTERIS GRAY**

**Micronycteris (Neonycteris) pusilla** Sanborn

Fieldiana, zool., vol. 31, no. 27, p. 228, April 29, 1949.


Skin and body in alcohol. Skull removed, complete.

**MEASUREMENTS:** Skin: forearm, 34.3 mm. Skull: greatest length, 17.9; zygomatic breadth, 8.9; length of upper tooth row, 6.7.

**Micronycteris hypoleuca** J. A. Allen


Skin in fair condition. Apparently the skull was not saved.

**MEASUREMENTS:** Skin: total length, 60 mm.; forearm, 34.4.

**Macrotus pygmaeus** Rehn


= *Micronycteris (Micronycteris) megalotis mexicana* (Miller). The type of *Macrotus pygmaeus* is a *Micronycteris* and referable to *M. megalotis mexicana*.


Skin in good condition. Skull lacking occipital region.

**MEASUREMENTS:** Skin: total length, 79.3 mm.; tail, 28; forearm, 35.5. Skull: zygomatic width, 9.2; length of maxillary tooth row, 7.4.

**GENUS LONCHORHINA TOMES**

**Lonchorhina occidentalis** Anthony

Amer. Mus. Novitates, no. 55, pp. 13–14, fig. 4b, January 31, 1923.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 110 mm.; tail, 51; hind foot 15; forearm, 48.7. Skull: greatest length, 20; zygomatic breadth, 11; length of maxillary tooth row, 6.8.

**GENUS TONATIA GRAY**

**Tonatia nicaraguae** Goodwin


P. M. Collectors: Halter and Mannhardt.
Skin in good condition. Skull crushed in occipital region but repaired.

Measurements: Skin: head and body, 42.5 mm.; tail, 6; hind foot, 10. Skull: greatest length, 17.9; greatest width, 7.8; length of maxillary tooth row, 6.5.

Tonatia minuta Goodwin

Skin in good condition. Skull complete.
Measurements: Skin: forearm, 34 mm. Skull: greatest length, 18.7; zygomatic breadth, 9; length of maxillary tooth row, 6.9.

Chrotopterus carrikeri J. A. Allen


Skin in good condition. Skull complete.
Measurements: Skin: total length, 90 mm.; tail, 9; forearm, 48. Skull: greatest length, 25.8; greatest breadth, 12.7; length of maxillary tooth row, 8.7.

Chrotopterus colombianus Anthony


Skin in good condition. Skull lacking occipital region.
Measurements: Skin: (dry), total length, 115 mm.; tail, 40; hind foot, 16.3; forearm, estimated, 84. Skull: greatest length, 25.5; zygomatic breadth, 13; length of maxillary tooth row, 9.4

† Tonatia saurophila Koopman and Williams

Skull: left mandible in good condition, last premolar and three molars in position.
Measurements: Skull: alveolar length of tooth row, 9.8 mm.

Genus Phyllostomus Lacépède

Phyllostomus hastatus panamensis J. A. Allen

Skin in fair condition. Skull complete.
Measurements: Skin: forearm, 90 mm. Skull: greatest length, 40; zygomatic breadth, 21.2; length of maxillary tooth row, 14.

Phyllostomus hastatus caurae1 J. A. Allen


Skin in fair condition. Skull incomplete, lacking posterior half behind interorbital region.
Measurements: Skin: forearm, 93 mm. Skull: length of maxillary tooth row, 14.6.

Genus Phyllostomus Lacépède

Phyllostomus septentrionalis Goodwin

Skin in good condition. Skull complete.
Measurements: Skin: head and body, 112 mm.; tail, 20; hind foot, 20; forearm, 80.

1 Sic, error in type description; equals caurae.
Skull: greatest length, 34.5; greatest width, 18; length of maxillary tooth row, 11.

**Genus LONCHOPHYLLA THOMAS**

*Lonchophylla thomasi* J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:** Skin: forearm, 31.5 mm.; hind foot, 18.3; length of maxillary tooth row, 6.4.

**Genus ANOURA GRAY**

*Glossophaga apolinari* J. A. Allen


Skin in good condition. Skull complete but slightly crushed in region of bulla.

**Measurements:** Skin: forearm, 44 mm.; skull: greatest length, 25; greatest breadth, 9; length of maxillary tooth row, 9.5.

*Anoura geoffroyi antricola* Anthony

Amer. Mus. Novitates, no. 20, pp. 5–6, November 3, 1921.


Skin in good condition. Skull complete.

**Measurements:** Skin: head and body, 81 mm.; hind foot, 13.5; forearm, 43.4. Skull: greatest length, 26; greatest breadth, 10; length of maxillary tooth row, 9.8.

**Genus MONOPHYLLUS LEACH**

† *Monophyllus frater* Anthony


Broken skull with complete rostrum, palate, last premolars and three molars on the left side.

**Measurements:** Skull: alveolar length of maxillary molar series, 7.1 mm.

**Genus CHOERONISCUS THOMAS**

*Choeronycteris intermedia* J. A. Allen and Chapman


**Measurements:** Skin: forearm, 36. Skull: greatest length, 22.5; greatest breadth, 8.4; length of maxillary tooth row, 7.7.

**Genus STURNIRA GRAY**

*Sturnira ludovici* Anthony

Amer. Mus. Novitates, no. 139, pp. 8–9, October 20, 1924.


Skin in good condition. Skull complete.

**Measurements:** Skin: forearm, 45.8 mm.; skull: greatest length, 25; zygomatic breadth, 14; length of entire upper tooth row, 8.4.

*Sturnira hondurensis* Goodwin

Amer. Mus. Novitates, no. 1075, pp. 1–2, June 27, 1940.


Skin in good condition. Skull complete.

**Measurements:** Skin: head and body, 73
Artibeus jamaicensis complete, Skull: length, 24.6; zygomatic breadth, 13.2; length of maxillary tooth row, 7.2.

Genus Chiroderma Peters

Chiroderma jesupi J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: forearm, 41. Skull: greatest length, 24; zygomatic breadth, 14.7; length of maxillary tooth row, 8.2.

Genus Artibeus Leach

Artibeus coryi J. A. Allen


Skin in fair condition. Skull incomplete, lacking posterior part of braincase.

Measurements: Skin: forearm, 50 mm. Skull: length of maxillary tooth row, 9.5.

Artibeus insularis J. A. Allen


19597 (nec 19579 as in type description). Skin and body in alcohol. Skull removed. Adult male. Island of St. Kitts, West Indies. Catalogued in 1902, but there is no indication as to when or by whom it was taken.

Skin and trunk in good condition. Skull incomplete, lacking most of the braincase.

Measurements: Skin: forearm, 60.5 mm. Skull: length of maxillary tooth row, 10.5.

Artibeus jamaicensis richardsoni J. A. Allen


Measurements: Skin: forearm, 57.5 mm. Skull: greatest length, 29.3; zygomatic breadth, 16.8; length of maxillary tooth row, 10.5.

Artibeus palmarum J. A. Allen and Chapman


Skin and body in good condition. Skull complete.

Measurements: Skin: forearm, 69.5 mm. Skull: greatest length, 31; zygomatic breadth, 19.4; length of maxillary tooth row, 11.

Artibeus intermedius J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: forearm, 63 mm. Skull: greatest length, 28; zygomatic breadth, 17.5; length of maxillary tooth row, 10.5.

Artibeus yucatanicus J. A. Allen


12038/10469. Skin and skull. Adult male.

Artibeus rusbyi J. A. Allen


Artibeus fraterculus Anthony


Genus Phyllops Peters
† Phyllops vetus Anthony

41001. Skull. Cave at Daiquiri, Province of Oriente, Cuba. February, 1917. Collector: H. E. Anthony. Skull with mandible, lacking upper incisors, both first upper premolars, last upper right molar, and with a portion of the braincase broken, mandible with canine and molariform teeth in place on left side only. Measurements: Skull: basal length, 15.8 mm.; length of maxillary tooth row, 5.9.

Ardops haitiensis J. A. Allen


Genus Phyllonycteris Gundlach
† Phyllonycteris major Anthony

40925. Skull. Cueva Catedral near Morovis, Puerto Rico. July 29, 1916. Collector: H. E. Anthony. Skull nearly complete but lacking full dentition and right side of mandible; only m1, m2 on left side, and m3 on right side present. Measurements: Skull: greatest length, 26.7 mm.; width of braincase, 11.3; alveolar length of maxillary molar series, 6.7.

Family Natalidae Miller
Genus Natalus Gray
† Natalus primus Anthony


Family Vespertilionidae Gray
Genus Myotis Kaup
Myotis bondae J. A. Allen
1953 GOODWIN: TYPE SPECIMENS OF MAMMALS 251

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: forearm, 32.2 mm. Skull: total length, 13; breadth of braincase, 6.3; length of maxillary tooth row, 5.

Myotis caucensis J. A. Allen

Skin in good condition. Skull lacking right mandible.
MEASUREMENTS: Skin: total length, 120 mm.; tail, 39; hind foot, 8; forearm, 37.3. Skull: greatest length, 14; width of braincase, 6.5; length of maxillary tooth row, 5.2.

Myotis chiriquensis J. A. Allen

18736. Skin and skull. Adult female.
Skin in fair condition, forearms incomplete on both sides. Skull complete except for broken zygomatic arches and the last upper molar on the left side and the second upper molar on the right side.
MEASUREMENTS: Skull: greatest length, 13.2; breadth of braincase, 6.3; length of maxillary tooth row, 5.

Myotis esmeraldae J. A. Allen


Skin in good condition. Skull complete.
MEASUREMENTS: Skin: forearm, 34 mm. Skull: greatest length, 13.2; breadth of braincase, 6.3; length of maxillary tooth row, 5.

Myotis ruber keaysi J. A. Allen

Skin in good condition. Skull lacking zygomatic arches and posterior part of braincase.
MEASUREMENTS: Skin: total length, 3 1/2 inches; tail, 1 5/8 inches; forearm, 38.8 mm. Skull: breadth of braincase, 6 mm.; length of maxillary tooth row, 5.3 mm.

Myotis punensis J. A. Allen

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: forearm, 31.5 mm. Skull: greatest length, 12.7; breadth of braincase, 6.6; length of maxillary tooth row, 4.65.

1 Miller penciled “atacamensis” on the label, which it may well be, although it is listed (loc. cit.) under nigricans.
Myotis maripensis J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 33.3 mm.; tail, 16.5; hind foot, 8; forearm, 40.


Skin in fair condition. Skull not saved.

Measurements: Skin: forelimb, 72 mm.; hind foot, 10; forearm, 40.

Myotis californicus durangae J. A. Allen


Measurements: Skin: forearm, 32.5 mm.; skull: greatest length, 13.1; breadth of brain-case, 6.5; length of maxillary tooth row, 4.7.

Myotis frater G. M. Allen
Amer. Mus. Novitates, no. 85, p. 6, August 28, 1923.


Skin and trunk in good condition. Skull complete.

Measurements: Skin: total length, 94 mm.; tail, 47; hind foot, 8; forearm, 39; skull: greatest length, 13.5; zygomatic width, 9.2; length of maxillary tooth row, 5.

Myotis chinensis luctuosus G. M. Allen


Skin in good condition. Skull complete.

Measurements: Skin: head and body, 80 mm.; tail, 65; hind foot, 16; forearm, 65; skull: greatest length, 24; zygomatic width, 15.5; length of maxillary tooth row, 9.5.
Nyctalus velutinus G. M. Allen 1953


Skin in good condition. Skull complete but with zygomatic arches broken.

Measurements: Skin: head and body, 75 mm.; tail, 52; hind foot, 11; forearm, 49. Skull: greatest length, 18; length of maxillary tooth row, 7.0.

Genus Pipistrellus Kaup

Pipistrellus portensis J. A. Allen


= Pipistrellus (?) coronandra portensis Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 166, November 19, 1951.


Skin in good condition. Skull lacking basal portion of cranium.

Measurements: Skin: forearm, 32.3. Skull: greatest length, 12.5; breadth of brain-case, 6.2; length of maxillary tooth row, 4.35.

Pipistrellus anthonyi Tate


Skin in good condition. Skull fragmentary.

Measurements: Skin: total length, 96 mm.; tail, 41; hind foot, 10; forearm, 38. Skull: length of maxillary tooth row, 5.0.

Pipistrellus abensis J. A. Allen


Skin in good condition. Skull lacking upper part of braincase.

Measurements: Skin: total length, 77 mm.; tail, 33; hind foot, 7; forearm, 31.5. Skull: greatest length, 11.7; breadth of brain-case, 5.7; length of maxillary tooth row, 3.9.

Genus Eptesicus Rafinesque

Adelonycteris gaumeri J. A. Allen


Skin in fair condition. Skull complete, except for right bulla.

Measurements: Skin: forearm, 40 mm. Skull: greatest length, 16; zygomatic breadth, 10.5; length of maxillary tooth row, 5.5.

Eptesicus chapmani J. A. Allen


= Eptesicus propinquus chapmani Allen. This form is closely allied to propinquus.


Skin in good condition. Skull complete except for right bulla.

Measurements: Skin: total length, 95 mm.; tail, 40; hind foot, 8.0; forearm, 38. Skull: greatest length, 16; zygomatic breadth, 10.5; length of maxillary tooth row, 5.65.

Eptesicus andinus J. A. Allen


33807. Skin and skull. Adult male. Valle de las Papas, central Andes, Huila, Colombia. Altitude, 10,000 feet. March 26, 1912. Col-
lectors: Arthur A. Allen and Leo E. Miller. Original number 703.
Skin in good condition but lacking left hind limb. Skull complete except for first left lower molar.

MEASUREMENTS: Skin: head and body, 65 mm.; tail, 35; hind foot, 8; forearm, 43.4. Skull: greatest length, 16.5; zygomatic breadth, 10.4; length of maxillary tooth row, 6.2.

**Eptesicus chiralensis** Anthony
Amer. Mus. Novitates, no. 240, p. 6, December 4, 1926.
= *Eptesicus brasiliensis chiralensis* Anthony. This is a small form, referable to the *brasiliensis* group.

Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 97 mm.; tail, 38; hind foot, 10; forearm, 41. Skull: greatest length, 15.6; zygomatic breadth, 10.3; length of maxillary tooth row, 5.9.

**Eptesicus capensis angolensis** Hill
Amer. Mus. Novitates, no. 916, pp. 1–2, fig. 1, April 17, 1937.

Skin in good condition. Skull complete except for right bullae.

MEASUREMENTS: Skin: head and body, 56 mm.; tail, 34; hind foot, 10; forearm, 37. Skull: greatest length, 14.2; zygomatic breadth, 10.4; length of maxillary tooth row, 5.

**Eptesicus garambae** J. A. Allen

Skin in good condition. Skull complete, except zygomatic arches broken.

MEASUREMENTS: Skin: total length, 77.6 mm.; tail, 33; hind foot, 9.1; forearm, 32.8. Skull: greatest length, 13.7; breadth of brain-case, 6.5; length of maxillary tooth row, 4.5.

**Eptesicus ater** J. A. Allen

Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 68 mm.; tail, 29; hind foot, 6; forearm, 27.5. Skull: greatest length, 12.2; zygomatic breadth, 7.5; length of maxillary tooth row, 4.0.

**Eptesicus faradjius** J. A. Allen

Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 93 mm.; tail, 39; hind foot, 8; forearm, 33. Skull: greatest length, 13.8; zygomatic breadth, 9; length of maxillary tooth row, 4.6.

**GENUS HISTIOTUS** Gervais

**Histiotus inambarus** Anthony

Skin in good condition. Skull incomplete, crushed in occipital region.

MEASUREMENTS: Skin: head and body, 56
mm.; tail, 52; hind foot, 9; forearm, 48.3. Skull: greatest length, 17.2; zygomatic breadth, 10; length of maxillary tooth row, 6.

**Genus SCOTOPHILUS** Leach

*Scotophilus kuhlii insularis* J. A. Allen


**Measurements:** Skin: forearm, 66 mm. Skull: length of maxillary tooth row, 8.6.

*Scotophilus castaneus consobrinus* J. A. Allen


**Measurements:** Skin: forearm, 50 mm. Skull: greatest length, 19; breadth of braincase, 8.4; length of maxillary tooth row, 6.3.

**Genus GLAUCONYCTERIS** Dobson

*Glauconycteris humeralis* J. A. Allen


**Measurements:** Skin: total length, 110 mm.; tail, 50; hind foot, 10; length of ear from notch, dry, 34; forearm, 44. Skull: greatest length, 17.2; breadth of braincase, 9.5; length of maxillary tooth row, 5.5.

**Genus EUDERMA** H. Allen

*Histiotus maculatus* J. A. Allen


3922/2991. Skin and skull and part of skele-

Skin in good condition. Skull and part of skeleton not located since 1903.

**Measurements:**
- Skin: head and body, 62 mm.; tail, 49.5; hind foot, 7.6; forearm, 50.8.
- Skull: greatest length, 19; zygomatic breadth, 10.9; length of upper tooth row, including incisors, 6.8.

**Genus MINIOPTERUS** Bonaparte

**Miniopterus breyeri vicinior** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skin: total length, 100 mm.; tail, 48; hind foot, 11; forearm, 43.2.
- Skull: greatest length, 14.8; breadth of brain-case, 7.5; length of maxillary tooth row, 5.3.

**Miniopterus schrebersii parvipes** G. M. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skin: forearm, 48 mm.
- Skull: greatest length, 16.2; breadth of brain-case, 7.7; length of maxillary tooth row, 6.

**Genus KERIVOULA** Gray

**Kerivoula mucina** Tate


Skin in good condition. Skull complete.

**Measurements:**
- Skin: total length, 78 mm.; tail, 42; hind foot, 7; forearm, 31.5.
- Skull: greatest length, 13.2; zygomatic breadth, 7.6; length of maxillary tooth row, 5.3.

**Family MOLOSSIDAE** Gill

**Genus MOPS** Lesson

**Mops congicus** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skin: total length, 140 mm.; tail, 39; hind foot, 17; forearm, 55.
- Skull: greatest length, 27; zygomatic breadth, 15; length of maxillary tooth row, 9.

**Mops chitauensis** Hill

Amer. Mus. Novitates, no. 916, p. 3, fig. 1, April 17, 1937.


Skin in good condition. Skull complete.

**Measurements:**
- Skin: total length, 116 mm.; tail, 41; forearm, 46.3.
- Skull: greatest length, 23.3; zygomatic breadth, 14.5; length of maxillary tooth row, 9.1.

**Mops niangarae** J. A. Allen


Skin in good condition. Skull complete except for bullae.

**Measurements:**
- Skin: total length, 125 mm.; tail, 34; hind foot, 13; forearm, 50.2.
- Skull: greatest length, 24.2; zygomatic breadth, 14.6; length of maxillary tooth row, 8.6.

**Mops trevori** J. A. Allen


Skin and trunk in good condition. Skull not located.

MEASUREMENTS: Skin: total length, 121.5 mm.; tail, 39.2; hind foot, 13.6; forearm, 53. Skull: total length, 24; zygomatic breadth, 14.6; length of maxillary tooth row, 8.6.

SUBGENUS ALLOMOPS ALLEN

Mops (Allomops) faradjius J. A. Allen


Skin and trunk in good condition. Skull complete except occipital region broken.

MEASUREMENTS: Skin: total length, 108 mm.; tail, 32; hind foot, 9; forearm, 43.5. Skull: greatest length, 22.2; zygomatic breadth, 12.9; length of maxillary tooth row, 7.8.

Mops (Allomops) nanulus J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 82 mm.; tail, 21; hind foot, 8; forearm, 29. Skull: greatest length, 17.5; zygomatic breadth, 10.9; length of maxillary tooth row, 6.3.

Mops (Allomops) occipitalis J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 98 mm.; tail, 30; hind foot, 10; forearm, 38. Skull: greatest length, 20.6; zygomatic breadth, 12.7; length of maxillary tooth row, 6.9.

Chaerephon (Allomops) osborni J. A. Allen


Skin and trunk in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 111.3 mm.; tail, 37.8; hind foot, 10.5; forearm, 49. Skull: greatest length, 22.9; zygomatic breadth, 13.2; length of maxillary tooth row, 7.7.

GENUS CHAEREPHON Dobson

Chaerephon frater J. A. Allen


Skin and trunk in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 80 mm.; tail, 30; hind foot, 7.2; forearm, 37. Skull: greatest length, 16.2; zygomatic breadth, 9.4; length of maxillary tooth row, 5.6.

Chaerephon russatus J. A. Allen


Museum Congo Expedition. Original number 993.

Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 102 mm.; tail, 31; hind foot, 10; forearm, 45.7. Skull: greatest length, 18.7; zygomatic breadth, 11; length of maxillary tooth row, 6.4.

**Subgenus LOPHOMOPS Allen**

**Chaerophon (Lophomops) abae** J. A. Allen


**Measurements:** Skin: total length, 103 mm.; tail, 39; hind foot, 11; forearm, 43. Skull: greatest length, 18.5; zygomatic breadth, 11.2; length of maxillary tooth row, 6.7.

**Chaerophon (Lophomops) chapini** J. A. Allen


**Measurements:** Skin total length, 84 mm.; tail, 28; hind foot, 7; forearm, 34. Skull: greatest length, 15.5; breadth of braincase, 7.6; length of maxillary tooth row, 5.4.

**Chaerophon (Lophomops) cristatus** J. A. Allen


**Measurements:** Skin: total length, 87 mm.; tail, 31; hind foot, 9; forearm, 36. Skull: greatest length, 16.3; zygomatic breadth, 9.7; length of maxillary tooth row, 5.5.

**Genus MORMOPTERUS** Peters

**Nyctinomus minutus** Miller


**Measurements:** Skin: total length, 74 mm.; tail, 28; hind foot, 6; forearm, 29. Skull: greatest length, 13.5; zygomatic breadth, 8; length of maxillary tooth row, 4.8.

**Mormopterus peruanus** J. A. Allen


**Measurements:** Skin: total length, 4 1/8 inches; tail, 1 5/8 inches; forearm, 43.5 mm. Skull: greatest length, 17 mm.; zygomatic breadth, 9.7; length of maxillary tooth row, 6.2.

**Genus NYCTINOMUS** Geoffroy

**Nyctinomus ochraceus** J. A. Allen


**Measurements:** Skin: total length, 105 mm.; tail, 33; hind foot, 11; forearm, 37.7. Skull: greatest length, 18.6; zygomatic breadth, 11.7; length of maxillary tooth row, 7.

**Genus TADARIDA** Rafinesque

**Nyctinomus aequatorialis** J. A. Allen


=Tadarida macrotis (Gray). According to Shamel,
MOLOGUS perotis2 Schinz  
Das Thierreich, vol. 1, p. 870, 1821.
MEASUREMENTS: Skin: forearm, 80 mm. Skull: length of maxillary tooth row, 13.

Eumops underwoodii Goodwin  
MEASUREMENTS: Skin: head and body, 113 mm.; tail, 52; hind foot, 15; forearm, 71.5. Skull: greatest length, 32.3; zygomatic width, 18.8; length of maxillary tooth row, 12.3.

Promops milleri  
J. A. Allen  
MEASUREMENTS: Skin: head and body, 81 mm.; tail, 46; hind foot, 16; forearm, 57. Skull: greatest length, 25.5; zygomatic breadth, 14; length of maxillary tooth row, 9.5.

1 The New York Times in a six-column account (May 26, 1866, p. 8) states, "... the greatest loss to science was the total destruction of the entire collections of the Lyceum of Natural History."

The specimen is one of a collection acquired by the American Museum from Maximilian. It has no original label but bears an American Museum type label inscribed in J. A. Allen's handwriting "MoIossus perotis Wied."
Promops barbatus J. A. Allen

Skin in good condition. Skull complete.
Measurements: Skull: greatest breadth, 10.5; length of maxillary tooth row, 6.2.

Genus Molossus Geoffroy

Molossus bondae J. A. Allen

Skin in good condition. Skull complete except for mandible.
Measurements: Skull: greatest length, 18.5; zygomatic breadth, 11.3; length of maxillary tooth row, 6.7.

Molossus cherriei J. A. Allen

Skin in good condition. Skull apparently not saved.
Measurements: Skull: forearm, 39.5 mm. Skull: greatest length, 18.5; zygomatic breadth, 11.3; length of maxillary tooth row, 6.7.

Molossus coibensis J. A. Allen

Skin in fair condition. Skull complete.
Measurements: Skull: forearm, 35 mm. Skull: greatest length, 16.3; zygomatic breadth, 10.5; length of maxillary tooth row, 6.2.

Molossus daulensis J. A. Allen
Skin in good condition, forearm incomplete.
Skull complete.
Measurements: Skull: greatest length, 16.5 mm.; zygomatic breadth, 10; length of maxillary tooth row, 6.

Molossus sinaloae J. A. Allen

Skin in fair condition. Skull complete.
Measurements: Skin: head and body, 2 3/4 inches; tail, 1 1/2 inches; forearm, 43 mm. Skull: greatest length, 20; zygomatic breadth, 12; length of maxillary tooth row, 7.3.

Molossus verrilli J. A. Allen

Skin in poor condition. Skull incomplete, lacking part of occipital and basal regions and zygomatic arches.
Measurements: Skin: forearm, 38.8 mm. Skull: greatest length, 17.5; breadth of braincase, 8.8; length of maxillary tooth row, 5.7.

Order Primates Linnaeus
Family Tupaiaidae Mivart
Genus Tupaia Raffles

Tupaia modesta J. A. Allen

Skin in good condition. Skull lacking posterior and basal portions of braincase.

Measurements: Skin (dry): total length, 328 mm.; tail, 150; hind foot, 47. Skull: greatest length, 50; zygomatic breadth, 25.5; length of entire upper tooth row, 26.7; length of maxillary tooth row, 18.

**Family Lemuridae** Gray

**Genus Lemur** Linnaeus

*Lemur fulvus sanfordi* Archbold


Skin in good condition. Skull complete.

Measurements: Skin: total length, 895 mm.; tail vertebrae, 495; hind foot, 107. Skull: greatest length, 90.5; greatest breadth, 51.5; length of upper tooth row, 42.5.

**Family Cebidae** Swainson

**Genus Aotus** Humboldt

*Aotus versus* Elliot


Skin in good condition. Skull complete except for second left upper incisor, last left upper molar, and last lower right molar.

Measurements: Skin: total length, 675 mm.; tail vertebrae, 350; hind foot, 70. Skull: greatest length, 65.6; greatest breadth, 43.7; length of maxillary tooth row, 17.7.

*Aotus griseimembra* Elliot


Skin in good condition but lacking distal half of tail. Skull lacking upper right molar series, apparently destroyed by bullet.

Measurements: Skin: total length, 1047; tail, 372; hind foot, 92.5. Skull: greatest length, 62.2; greatest breadth, 40.5; length of maxillary tooth row, 17.

*Aotus pervigilis* Elliot


Skin in fair condition, lacking right foreleg. Skull not located.

Measurements: Skin (dry): total length, 750; tail vertebrae, 400; hind foot, 80. Skull: greatest length, 64.1; zygomatic breadth, 40.7; length of upper molar series, 14.6.

**Genus Callicebus** Thomas

*Callicebus lugens duida* J. A. Allen


Skin in good condition. Skull lacking last upper left premolar, last upper left molar, and first right lower premolar.

Measurements: Skin: total length, 780 mm.; tail vertebrae, 440; hind foot, 95. Skull: greatest length, 68.3; zygomatic breadth, 45.5; length of maxillary tooth row, 17.6.

**Genus Pithecia** Desmarest

*Pithecia milleri* J. A. Allen


Skin in fair condition, somewhat grease burnt about the hands and feet. Skull complete except for upper right incisors.

**Measurements:** Skin (dry): total length, 880 mm.; tail vertebrae, 400; hind foot, 120.

Skull: greatest length, 86.5; zygomatic breadth, 57; length of maxillary tooth row, 25.5.

*Cacajao roosevelti* J. A. Allen


= *Pithecia albinasa* Geoffroy and Deville. *Cacajao roosevelti* Allen is clearly a synonym of *Pithecia albinasa*.


Skin in good condition. Skull complete except for last lower right molar.

**Measurements:** Skin: total length, 850 mm.; tail vertebrae, 380; hind foot, 130.

Skull: greatest length, 91.7; zygomatic breadth, 60.3; length of maxillary tooth row, 25; length of molariform tooth row, 19.

**Genus ALOUATTA LACÉPÈDE**

*Alouatta palliata matagalpae* J. A. Allen


Skin in good condition. Skull lacking last upper molar on both sides, last lower right molar, and last three lower left molars.

**Measurements:** Skin: total length, 1120 mm.; tail vertebrae, 620; hind foot, 130.

Skull: total length, 107; zygomatic breadth, 76.5; alveoli of maxillary tooth row, 40.

*Alouatta seniculus bogotensis* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 1100 mm.; tail vertebrae, 660; hind foot, 370.

Skull: greatest length, 125; zygomatic breadth, 76.5; length of maxillary tooth row, 42; length of molariform tooth row, 34.3.

*Alouatta seniculus caquetensis* J. A. Allen


Skin in poor condition, grease burnt about arms, legs, and chest. Skull complete.

**Measurements:** Skin: total length, 1100 mm. (110 mm. in error in type description); tail vertebrae, 590; hind foot, 135. Skull: greatest length, 111.2; zygomatic breadth, 71; length of maxillary tooth row, 38.

*Alouatta seniculus caucensis* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 1243 mm.; tail vertebrae, 640; hind foot, 135. Skull: greatest length, 121.5; zygomatic breadth, 79.5; length of maxillary tooth row, 42.5.

*Alouatta seniculus rubiginosa* J. A. Allen

Bull. Amer. Mus. Nat. Hist., vol. 20, art. 35, pp. 458–462, figs. 1, 3 (with captions “rubigi-
nosa," lapsus calami for rubicunda), November 28, 1904.


Skin in fair condition, grease burnt about hind limbs. Skull slightly damaged about right orbit.

**Measurements**: Skin: total length, 1346 mm.; tail vertebrae, 749. Skull: greatest length, 122.5; zygomatic breadth, 84.2; length of maxillary tooth row, 43.5.

**Genus CEBUS Erxleben**

*Cebus capucinus nigripictus* Elliot


**Measurements**: Skin: total length, 835 mm.; tail vertebrae, 430; hind foot, 122. Skull: greatest length, 96; zygomatic breadth, 56; length of maxillary tooth row, 27.5.

*Cebus apella brunneus* J. A. Allen


Skin in good condition. Skull complete except for first premolar and last molar on lower right side.

**Measurements**: Skin: total length, 860 mm.; tail vertebrae, 440; hind foot, 125.

Skull: greatest length, 100.5; zygomatic breadth, 68; length of maxillary tooth row, 29.8.

*Cebus malitiosus* Elliot


Skin in good condition. Skull complete except for last right upper molar and last two left upper molars.

**Measurements**: Skin: total length, 2 feet, 11 inches; tail vertebrae, 17 1/2 inches; hind foot, 4 1/2 inches. Skull: greatest length, 102.6 mm.; zygomatic breadth, 69.8; length of maxillary tooth row, 28.3.

*Cebus aequatorialis* J. A. Allen


Skin in good condition. Skull with brain-case crushed on right side, repaired, and lacking last right and left lower molars.

**Measurements**: Skin: total length, 860 mm.; tail vertebrae, 430; hind foot, 14. Skull: greatest length, 90.5; length of maxillary tooth row, 25.9.

**Genus SAIMIRI Voigt**

*Saimiri caquetensis* J. A. Allen


Skin in good condition. Skull lacking sec-
ond upper right and first upper left premolars, first upper left molar, and 10 lower teeth.

**Measurements:** Skin: total length, 760 mm.; tail vertebrae, 400; hind foot, 80. Skull: greatest length, 67.5; zygomatic breadth, 38.9; length of maxillary tooth row, 16.5.

**Genus Ateles Geoffroy**

*Ateles longimembres* J. A. Allen


Skin in fair condition. Skull complete but jaws malformed on right side.

**Measurements:** Skin: total length, 1403 mm.; tail vertebrae, 915; hind foot, 200. Skull: greatest length, 122.3; zygomatic breadth, 62.2; length of maxillary tooth row, 33.

*Ateles robustus* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 1220 mm.; tail vertebrae, 630; hind foot, 160. Skull: greatest length, 116; zygomatic breadth, 73.5; length of maxillary tooth row, 32.5.

**Family Callithricidae Thomas**

**Genus Marikina Reichenbach**

*Seniocebus meticulus* Elliot


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 25 1/2 inches. Dry: total length, 600 mm.; tail vertebrae, 350; hind foot, 68.5. Skull: greatest length, 49.5; zygomatic breadth, 33.8; length of maxillary tooth row, 12.6.

*Seniocebus pegasii* Elliot


Skin in good condition. Skull not located (not entered in catalogue).

**Measurements:** Skin (field measurements): total length, 595 mm. (dry, 630); tail vertebrae, 357; hind foot, 65 (dry, 70). Skull: greatest length, 47.9; zygomatic breadth, 33.9; length of upper molar series, 9.5 (Elliot).

*Oedipomidas salaquiensis* Elliot


Skin in good condition. Skull with brain-case broken, repaired.

**Measurements:** Skin: total length, 600 mm.; tail vertebrae, 395; hind foot, 75. Skull: greatest length, 54.5; zygomatic breadth, 36.1; length of upper molar series, 10; length of maxillary tooth row, 13.

*Leontocebus midas inustus* Schwarz

Amer. Mus. Novitates, no. 1508, pp. 1–3, April 13, 1951.

Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 580 mm.; tail vertebrae, 350; hind foot, 65. Skull: greatest length, 50.8; zygomatic breadth, 35.4; length of maxillary tooth row, 12.1

**Genus Xenothrix** Williams and Koopman

† *Xenothrix mcgregori* Williams and Koopman


Anterior and left side of mandible with first and second molars in place.

**Measurements:** Skull: combined length of last two molars, 12.5 mm.; alveolar length of entire mandibular tooth row, 30.3.

**Family Cercopithecidae** Gray

**Genus Macaca** Lacépède

*Pithecus brachyurus* Elliot


*Pithecus brevicaudus* Elliot

A review of the primates, vol. 2, p. 216, pl. 23, 1913 (new name for *P. brachyurus* Elliot).


Skin in good condition. Skull with zygomatic arch on right side broken.

**Measurements:** Skin: total length, 730 mm.; tail vertebrae, 220; hind foot, 135. Skull: greatest length, 120.2; zygomatic breadth, 81.8; length of maxillary tooth row, 38.

**Genus Colobus** Illiger

*Colobus langi* J. A. Allen


Skin in fair condition, lacking fore and hind feet. Skull lacking right upper canine tooth.

**Measurements:** Skin: total length, 1165 mm.; tail vertebrae, 665; hind foot, 170. Skull: greatest length, 108.9; zygomatic breadth, 81; length of maxillary tooth row, 35.

**Order Edentata** Cuvier

**Family Myrmecophagidae** Bonaparte

**Genus Tamandua** Frisch

*Tamandua tetradactyla chapadensis* J. A. Allen


Skull complete. Skin of paratype in good condition.

**Measurements:** Skin of paratype (dry): total length, 715 mm.; tail vertebrae, 340; hind foot, 6.6. Skull of type: occipitonasal length, 125.9; greatest breadth, 44.

*Tamandua tetradactyla chiriquensis* J. A. Allen


Skin in good condition. Skull lacking left zygomatic arch.

**Measurements:** Skin: total length, 1165 mm.; tail vertebrae, 555; hind foot, 90. Skull: occipitonasal length, 132.3; greatest breadth, 45.

*Tamandua tetradactyla punensis* J. A. Allen


36452. Skin and skull. Adult female. Puna

**Measurements:** Skin: total length, 1300 mm.; tail vertebrae, 540; hind foot, 90. Skull: occipitonasal length, 115; greatest breadth, 40.5.

**Tamandua tetradsactyla instabilis** J. A. Allen


**Measurements:** Skin: total length, 3 feet, 6 1/2 inches; tail vertebrae, 1 foot, 9 inches. Skull: occipitonasal length, 114.5 mm.; greatest breadth, 38.5.

**Tamandua tetradsactyla tenuirostris** J. A. Allen


**Measurements:** Skin: total length, 1185 mm.; tail vertebrae, 600; hind foot, 95. Skull: occipitonasal length, 133.1; greatest breadth, 42.

**Family BRADYPODIDAE** Bonaparte

**Genus CHOLOEPS** Illiger

**Choloepus andinus** J. A. Allen

Bull. Amer. Mus. Nat. Hist., vol. 32, art. 29, p. 472, figs. 6, 12, 18, September 25, 1913.


Skin in good condition. Skull lacking last right upper molar and last left lower molar.

**Measurements:** Skin: total length, 640 mm.; hind foot, 145. Skull: greatest length, 116; zygomatic breadth, 66.5; length of maxillary tooth row, 41.5; length of upper molariform tooth row, 25.

**Choloepus agustinus** J. A. Allen


Skin in good condition. Skull lacking first and last tooth on right side of lower jaw.

**Measurements:** Skin: total length, 600 mm.; hind foot, 130. Skull: greatest length, 98.2; zygomatic breadth, 62; length of maxillary tooth row, 34.5; length of upper molariform tooth row, 21.

**Choloepus capitalis** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 690 mm.; hind foot, 120. Skull: greatest length, 101.5; zygomatic breadth, 58.8; length of maxillary tooth row, 37; length of upper maxillary tooth row, 20.

**Choloepus florenciae** J. A. Allen


Skin in good condition. Skull lacking all teeth in upper jaw except first and second on right side; and in the lower jaw, lacking the third tooth on both sides and the first on the right side.

**Measurements:** Skin: total length, 800 mm.; hind foot, 130. Skull: greatest length, 118.8; zygomatic breadth, 65; length of alveoli of maxillary tooth row, 41.5; length of upper molariform tooth row, 21.

**Order PHOLIDOTA** Weber

**Family MANIDAE** Gray

**Genus MANIS** Linnaeus

**Manis pusilla** J. A. Allen

Bull. Amer. Mus. Nat. Hist., vol. 22, art. 28,
Skull:
zygomatic
maxillary
occipital
7
32

figginsi
32
3

39.5; zygomatic
body, 150
of
length
bullae

greatest
28
33,
formerly
cinnamomea
Ochotona
37.

1953
GOODWIN: TYPE SPECIMENS OF MAMMALS

1906.

= Manis pentadactyla pusilla Allen. According to
G. M. Allen, Amer. Mus. Novitates, no. 429,
p. 7, September 8, 1930.

26635. Skin and skull. Adult. Hainan, China.
September, 1902. Purchased from Alan
Owston of Yokohama, taken by his
agents. Original number 4.

Skin in good condition. Skull complete.

Measurements: Skin: total length, 670
mm.; tail vertebrae, 250; hind foot (s.u.), 56.
Skull: greatest length, 82; greatest breadth, 37.

Order LAGOMORPHA Brandt

Family OCHOTONIDAE Thomas

Genus OCHOTONA Link

Ochotona cinnamomea J. A. Allen
Bull. Mus. Brooklyn Inst. Arts and Sci., vol. 1,
no. 5, pp. 121–122, March 31, 1905.

= Ochotona princeps cinnamomea Allen. According
p. 103, June 13, 1934.

28733, formerly number 434, Mus. Brooklyn
“Briggs” [=Britts] Meadows, Beaver
Range, Beaver County, Utah. Altitude,
11,000 feet. August 20, 1904. Collector:
George P. Engelhardt.

Skin in good condition. Skull lacking left
bulla and adjoining part of braincase.

Measurements: Skin (dry): head and
body, 150 mm.; hind foot, 26.5. Skull:
greatest length, 39.5; zygomatic breadth, 20;
length of maxillary tooth row, 8.0.

Ochotona figginsi J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 31, art. 9,
pp. 103–104, May 28, 1912.

= Ochotona princeps figginsi Allen. According to
A. H. Howell, North Amer. Fauna, no. 47, p. 21,
August 21, 1924.

32721. Skin and skull. Adult female. Pagoda
Peak, Rio Blanco County, Colorado. Octo-
Original number 6.

Skin in good condition. Skull lacking
occipital and basi-cranial regions.

Measurements: Skin: head and body,
7 5/8 inches; hind foot, 1 5/32 inches.
Skull: zygomatic breadth, 20.7; length of
maxillary tooth row, 8.5.

Ochotona (Pika) coreanus J. A. Allen and
Andrews
Bull. Amer. Mus. Nat. Hist., vol. 32, art. 24,

= Ochotona hyperborea coreana Allen and Andrews.
According to Tate, Mammals of eastern Asia,

34050. Skin and skull. Adult female. Pochong,
Korea. Altitude, about 3000 feet. June 2,
1912. Collector: R. C. Andrews. Original
number 151.

Skin in fair condition, epidermis slipped
about sides of lower abdomen. Skull complete.

Measurements: Skin: head and body,
204 mm.; hind foot, 30. Skull: greatest
length, 42.7; zygomatic breadth, 22; length
of maxillary tooth row, 8.3.

Ochotona kolymensis J. A. Allen
154–155, March 31, 1903.

= Ochotona hyperborea kolymensis Allen. According
to Tate, Mammals of eastern Asia, p. 209,
1947.

= Ochotona hyperborea hyperborea Pallas. According
to Ellerman and Morrison-Scott, Checklist
of Palaearctic and Indian mammals, p. 454,
November 19, 1951.

19535. Skin and skull. Adult male. Verkhne
Kolimsk, Kolyma River, Yakutsk, Siberia.
December, 1901. Collector: Waldemar
Skin and trunk in alcohol. Skull removed,
complete.

Measurements: Skin: head and body,
153 mm.; hind foot, 24. Skull: greatest length,
37.7; zygomatic breadth, 20; length of
maxillary tooth row, 7.2.

Ochotona osgoodi Anthony
Publ. Field Mus. Nat. Hist., zool. ser., vol. 27,
p. 113–117, December 8, 1941.

= Ochotona (?) pusilla osgoodi Anthony. According
to Ellerman and Morrison-Scott, Checklist
of Palaearctic and Indian mammals, p. 449, No-

115464. Skin and skull. Adult male. Nyetmew
River, northeastern Burma. Altitude, 8600
Anthony. Vernay-Cutting Burma Expedi-
tion. Original number 3940.

Skin in good condition. Skull complete.

Measurements: Skin: total length, 169
mm.; tail vertebrae, 14; hind foot, 33. Skull:
greatest length, 39.4; zygomatic breadth,
19.3; alveolar length of maxillary tooth row, 7.3.

**Family Leporidae Gray**

**Genus Caprolagus Blasch**

*Caprolagus sinensis flaviventris* G. M. Allen


Skin in fair condition; hind leg and head cemented. Skull complete.

**Measurements:** Skin: total length, 340 mm.; tail vertebrae, 55; hind foot, 88; ear, 62. Skull: greatest length, 76; zygomatic breadth, 37.2; length of maxillary tooth row, 14.5.

**Genus Lepus Linnaeus**

*Lepus gichiganus* J. A. Allen


Skin in good condition. Skull complete except for broken supraorbital process on right side.

**Measurements:** Skin: total length, 584 mm.; tail vertebrae, 75; hind foot, 173. Skull: greatest length, 95; zygomatic breadth, 49.5; length of maxillary tooth row, 17.5.

*Lepus timidus mordenii* Goodwin


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 570 mm.; tail vertebrae, 40; hind foot, 180. Skull: greatest length, 92.5; zygomatic breadth, 46.8; length of maxillary tooth row, 19.5.

*Lepus europaeus iranensis* Goodwin

Amer. Mus. Novitates, no. 1050, pp. 4–5, December 1, 1939.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 600 mm.; tail vertebrae, 59; hind foot, 150. Skull: greatest length, 96.3; zygomatic breadth, 46.2; length of maxillary tooth row, 17.

**Lepus swinhoei brevinasus** J. A. Allen


Skin in poor condition. Skull lacking occipital region.

**Measurements:** Skin: total length, 22 inches; hind foot (dry), 116.5 mm. Skull: zygomatic breadth, 41; length of maxillary tooth row, 15.

**Lepus comus** G. M. Allen

Amer. Mus. Novitates, no. 284, p. 9, September 13, 1927.


Skin in good condition. Skull complete except for last right upper molar.

**Measurements:** Skin: total length, 480 mm.; tail vertebrae, 98; hind foot, 130; ear, 97. Skull: greatest length, 94.2; zygomatic breadth, 42; length of maxillary tooth row, 17.

**Lepus bishopi** J. A. Allen


= *Lepus americanus bishopi* Allen. According to


**Measurements**: Skin (dry): total length, 350 mm.; tail vertebrae, 43; hind foot, 112. Skull: greatest length, 75.5; zygomatic breadth, 40; length of maxillary tooth row, 15.5.

*Lepus americanus phaeonotus* J. A. Allen


**Measurements**: Skin: total length, 488 mm.; tail vertebrae, 56; ear, 88; hind foot (dry), 119. Skull: greatest length, 70.5; zygomatic breadth, 37.5; length of maxillary tooth row, 13.6.

*Lepus alleni* Mearns


**Measurements**: Skin: total length, 643 mm.; tail vertebrae, 69; ear from crown, 195; hind foot, 138. Skull: greatest length, 113.8; greatest breadth, 48.8; length of maxillary tooth row, 18.5.

*Lepus (Microtologus) caillardi battyi* J. A. Allen.


**Measurements**: Skin: total length, 511 mm.; tail vertebrae, 60; hind foot (s.u.), 120.6; ear from notch, 127. Skull: greatest length, 94.5; zygomatic breadth, 44; length of maxillary tooth row, 17.5.

*Lepus texianus deserticola* Mearns


**Measurements**: Skin: total length, 560 mm.; tail vertebrae, 104; hind foot, 126; ear, 171. Skull: greatest length, 90; zygomatic breadth, 42; length of maxillary tooth row, 16.

*Lepus texianus eremicus* J. A. Allen


**Measurements**: Skin: total length, 565 mm.; tail vertebrae, 74; hind foot, 123; ear from crown, 128.

*Lepus melanotis* Mearns

24422/1554. Skin and skull. Adult male. From the border of Indian Territory (now

Skin in fair condition. Skull lacking zygoma on right side, tip of premaxillae, and upper incisors.

**Measurements:** Skin: total length, 590 mm.; tail vertebrae, 77; hind foot, 130; ear from crown, 142. Skull: paratype number 1553, adult male: greatest length, 95.5; greatest breadth, 42.7; length of maxillary tooth row (type), 16.5.

*Lepus* (Macrotalagus) texianus micropus J. A. Allen


Skin in fair condition. Skull lacking right bulla, last left lower molar, and posterior part of both sides of mandible.

**Measurements:** Skin: total length, 535 mm.; tail vertebrae, 76; hind foot, 114; ear from crown, 175. Skull: greatest length, 94.5; zygomatic breadth, 42.8; length of maxillary tooth row, 15.5.

**Genus SYLVILAGUS** Gray

*Lepus sylvaticus floridanus* J. A. Allen


Skin in fair condition. Skull lacking right zygomatic arch and left side of mandible.

**Measurements:** Skin: total length, 490 mm.; tail vertebrae (dry), 30; hind foot (dry), 84. Skull: greatest length, 72; length of maxillary tooth row, 14.5.

*Lepus sylvaticus mearnsii* J. A. Allen


**Measurements:** Skin: total length, 470 mm.; tail vertebrae, 60; hind foot, 100. Skull: greatest length, 75; zygomatic breadth, 37; length of maxillary tooth row, 15.5.

*Lepus floridanus chapmani* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 405 mm.; tail vertebrae, 40; hind foot, 81. Skull: greatest length, 69.5; zygomatic breadth, 32.3; length of maxillary tooth row, 13.5.

*Lepus (Sylvilagus) durangae* J. A. Allen


**Measurements:** Skin: total length, 456.8 mm.; tail vertebrae, 50.8; hind foot, 95; ear, 76. Skull: greatest length, 77; zygomatic breadth, 36; length of maxillary tooth row, 14.5.

*Lepus (Sylvilagus) russatus* J. A. Allen


Skin in fair condition. Skull lacking last two left upper molars.

**Measurements:** Skin: total length, 450 mm.; tail vertebrae, 42; hind foot, 80. Skull: greatest length, 78.5; zygomatic breadth, 35.2; length of maxillary tooth row, 13.5.

*Lepus sylvaticus aztecs* J. A. Allen


Skin in good condition. Skull lacking last right molar.

**Measurements:** Skin: total length, 337 mm.; tail vertebrae, 37; hind foot, 82. Skull: greatest length, 72.7; zygomatic breadth, 35; length of maxillary tooth row, 13.5.

*Lepus (Sylvilagus) superciliaris* J. A. Allen


Skin in good condition. Skull lacking right bulla and last upper left molar.

**Measurements:** Skin: total length, 1 foot, 5 3/4 inches; tail vertebrae, 1 inch; hind foot (dry), 87 mm. Skull: greatest length, 78.2 mm.; zygomatic breadth 35.2; length of maxillary tooth row, 14.5.

*Sylvilagus boylei* J. A. Allen


Skin in good condition. Skull lacking last molars on both sides of upper jaw and tip of nasals.

**Measurements:** Skin: total length, 440 mm.; tail vertebrae, 35; hind foot, 90. Skull: greatest length, 78; zygomatic breadth, 35.5; length of maxillary tooth row, 14.5.

*Lepus sylvaticus grangeri* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 13 8/16 inches; ear, 2 3/16; hind foot, 3 8/16. Skull: greatest length, 63.2 mm.; zygomatic breadth, 33; length of maxillary tooth row, 11.

*Lepus sylvaticus pinetis* J. A. Allen


Skin in good condition. Skull lacking third upper left molar.

**Measurements:** Skin: total length, 335 mm.; tail vertebrae, 40; hind foot, 100; ear, 69. Skull: greatest length, 65; zygomatic breadth, 33.7; length of maxillary tooth row, 11.6.

*Lepus arizonae confinis* J. A. Allen


13562/11911. Skin and skull. Adult female. Playa Maria Bay, Lower California,

Skin in good condition. Skull lacking left bulla.

**MEASUREMENTS:** Skin: total length, 310 mm.; tail vertebrae, 25; hind foot (dry), 66. Skull: total length, 61.5; zygomatic breadth, 29.5; length of maxillary tooth row, 11.7.

**Lepus (Sylvilagus) parvulus** J. A. Allen


**MEASUREMENTS:** Skin: total length, 390 mm.; hind foot, 75; ear, 65. Skull: greatest length, 65; zygomatic breadth, 33; length of maxillary tooth row, 12.

**Lepus insolitus** J. A. Allen


**MEASUREMENTS:** Skin: total length, 440 mm.; tail vertebrae, 35; hind foot (dry), 92. Skull: greatest length, 82.8; zygomatic breadth, 39; length of maxillary tooth row, 15.5.

**Lepus cinerascens** J. A. Allen


**MEASUREMENTS:** Skin: total length, 318 mm.; tail vertebrae, 24; hind foot (dry), 62. Skull: greatest length, 62.2; zygomatic breadth, 29.2; length of maxillary tooth row, 11.5.

**Lepus cerrosensis** J. A. Allen


**MEASUREMENTS:** Skin: total length, 310 mm.; tail vertebrae, 25; hind foot (dry), 67.8. Skull: greatest length, 55.5; zygomatic breadth, 28.8; length of maxillary tooth row, 10.5.

**Lepus gabbi tumacus** J. A. Allen


**MEASUREMENTS:** Skin: total length, 236 mm.; hind foot, 70. Skull: greatest length, 68.5; zygomatic breadth, 32; length of maxillary tooth row, 13.

**Lepus aquaticus attwateri** J. A. Allen


**MEASUREMENTS:** Skin: total length, 20 1/2
inches; tail vertebrae, 3 1/4 inches; hind foot, 4 1/8 inches; weight, 5 1/4 pounds. Skull: greatest length, 89.2; zygomatic breadth, 41.7; length of maxillary tooth row, 16.2.

**Sylvilagus gabbi consobrinus** Anthony


Skin in good condition. Skull lacking first and second left upper molars.

**MEASUREMENTS:** Skin: total length, 373 mm.; tail vertebrae, 28; hind foot, 79. Skull: greatest length, 68.8; zygomatic breadth, 33.9; length of maxillary tooth row, 13.

**Sylvilagus (Tapeti) fulvescens** J. A. Allen


Skin in good condition. Skull lacking next to last molar on upper right side.

**MEASUREMENTS:** Skin: total length, 328 mm.; tail vertebrae, 20; hind foot, 81. Skull: greatest length, 63; zygomatic breadth, 31.2; length of maxillary tooth row, 12.5.

**Sylvilagus (Tapeti) salentus** J. A. Allen


Skin in good condition. Skull fragmentary.

**MEASUREMENTS:** Skin: total length, 340 mm.; tail vertebrae, 12; hind foot, 83. Skull: length of maxillary tooth row, 13.

**Sylvilagus kelloggi** Anthony

Amer. Mus. Novitates, no. 55, pp. 9–12, fig. 3C, E (skull), January 31, 1923.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 355 mm.; tail vertebrae, 25; hind foot, 82. Skull: greatest length, 66.5; zygomatic breadth, 33.5; length of maxillary tooth row, 12.5.

**Sylvilagus chillae** Anthony


Skin in good condition. Skull fragmentary, partly repaired.

**MEASUREMENTS:** Skin: total length, 382 mm.; hind foot, 81. Skull: greatest length, 69; zygomatic breadth, 34; length of maxillary tooth row, 14.

**Sylvilagus daulensis** J. A. Allen


Skin in poor condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 350 mm.; hind foot, 80. Skull: greatest length,
69; zygomatic breadth, 31.4; length of maxillary tooth row, 13.2.

**Order Rodentia** Boddich

**Family Sciuridae** Gray

**Genus Sciurus** Linnaeus

**Subgenus Neosciurus** Trouessart

Sciurus cervinalis J. A. Allen


Skin in poor condition. Skull lacking last upper right molar and both first upper premolars.

**Measurements:** Skin: total length, 600.4 mm.; tail vertebrae, 330; hind foot (dry), 60. Skull: greatest length, 62; zygomatic breadth, 35.5; length of maxillary tooth row, 11.8.

Sciurus poliopus tepicanus J. A. Allen


Skin in fair condition. Skull complete, teeth showing considerable wear.

**Measurements:** Skin: total length, 508 mm.; tail vertebrae, 254; hind foot, 67. Skull: greatest length, 58.8; zygomatic breadth, 34.5; length of maxillary tooth row, 11.4.

Sciurus yucatanensis phaeopus Goodwin

Amer. Mus. Novitates, no. 574, pp. 1–2, October 22, 1932.


Skin in first-class condition. Skull complete.

**Measurements:** Skin: total length, 485 mm.; tail vertebrae, 240; hind foot, 59. Skull: greatest length, 54.8; zygomatic breadth, 31.8; length of maxillary tooth row, 10.8.

Sciurus aberti barberi J. A. Allen


Skin in first-class condition. Skull lacking occipital region of braincase and upper incisors.

**Measurements:** Skin: total length, 500 mm.; tail vertebrae, 240; hind foot, 70. Skull: zygomatic breadth, 34.3; length of maxillary tooth row, 11.

Sciurus aberti phaeurus J. A. Allen


Skin in poor condition, most of the hair on the middle and lower back lost. Skull lacking posterior half of left zygomatic arch, teeth showing considerable wear.

**Measurements:** Skin: total length, 493 mm.; tail vertebrae, 222; hind foot, 69. Skull: greatest length, 59; length of maxillary tooth row, 11.2.

**Subgenus Baiosciurus** Nelson

Sciurus deppei matagalpae J. A. Allen


**Measurements:** Skin (dry): total length, 407 mm.; tail vertebrae, 182; hind foot, 53. Skull: zygomatic breadth, 29.2; length of maxillary tooth row, 8.

**Subgenus Guerlinguetus** Gray

Sciurus alstoni J. A. Allen

167–170, October 2, 1889. (Name preoccupied by Sciurus alstoni Anderson, 1878.)

[Sciurus] navaritensis Allen

1985/1254. Skin and skull. Adult male.
Skin in fair condition. Skull lacking left bullae, otherwise complete.

Measurements: Skin (dry): total length, 580 mm.; tail vertebrae, 280; hind foot, 70. Skull: greatest length, 65.2; zygomatic breadth, 35.7; length of maxillary tooth row, 12.6.

Sciurus apache J. A. Allen

Skin in fair condition. Skull lacking left bullae, otherwise complete.

Measurements: Skin (dry): total length, 585 mm.; tail vertebrae, 265; hind foot, 72. Skull: greatest length, 64; zygomatic breadth, 36.5; length of maxillary tooth row, 11.6.

Sciurus arizonensis huachucu J. A. Allen

Skin in good condition. Skull: cranium complete, mandible lacking posterior structure.

Measurements: Skin (dry): total length, 540 mm.; tail vertebrae, 265; hind foot, 70. Skull: greatest length, 62.7; zygomatic breadth, 37.6; length of maxillary tooth row, 10.8.

Sciurus saltuensis bondae J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 474 mm.; tail vertebrae, 230; hind foot, 60. Skull: greatest length, 57.5; zygomatic breadth, 32.8; length of maxillary tooth row, 9.7.

Sciurus saltuensis magdalenae J. A. Allen


Skin in good condition. Skull lacking left side of braincase, occipital region, and lower jaws.

Measurements: Skin: total length, 434 mm.; tail vertebrae, 189; hind foot, 56. Skull: length of maxillary tooth row, 10.5.

Sciurus gerrardi salaquensis J. A. Allen


Skin in good condition. Skull lacking all but the first three upper left molar teeth, the first three lower left and the first lower right molar teeth.

Measurements: Skin: total length, 470 mm.; tail vertebrae, 230; hind foot, 60. Skull: greatest length, 58.5; zygomatic breadth, 35.2; length of maxillary tooth row, 9.8.

Mesosciurus gerrardi baudensis J. A. Allen
Sciurus milleri J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 31, art. 7, p. 91, April 19, 1912. (Name preoccupied by Sciurus epomophorus milleri Robinson and Wroughton, 1911.)

Sciurus (Mesosciurus) gerrardi leonis Lawrence


Skin in good condition. Skull lacking first right premolar, both last upper molars, first right lower premolar, and two last right and last left lower molars.

Measurements: Skin: total length, 508 mm.; tail vertebrae, 268; hind foot, 58. Skull: greatest length, 54.7; zygomatic breadth, 32.5; length of maxillary tooth row, 9.5.
greatest length, 51.2; zygomatic breadth, 31; length of maxillary tooth row, 10.7.

_Guerlinguetus cand answers_ J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 380 mm.; tail vertebrae, 190; hind foot, 50. Skull: greatest length, 51.2; zygomatic breadth, 29.4; length of maxillary tooth row, 9.7.

_Sciurus chap answers_ J. A. Allen


7322/5930. Skin and skull. Adult male.

Skin in good condition. Skull lacking posterior part of braincase and lower jaws.

Measurements: Skin: total length, 370 mm.; tail vertebrae, 162; hind foot, 46. Skull: greatest length, 49; zygomatic breadth, 30; length of maxillary tooth row, 8.2.

_Sciurus_ ( _Guerlinguetus_ ) _aestuans quebradensis_ J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 348 mm.; tail vertebrae, 156; hind foot, 46. Skull: greatest length, 46.8; zygomatic breadth, 26.9; length of maxillary tooth row, 8.

_Guerlinguetus aestuans venustus_ J. A. Allen

= _Sciurus aestuans venustus_ Allen. According to Ellerman, The families and genera of living rodents, vol. 1, p. 342, June 8, 1940.


Skin in fair condition, tail imperfect. Skull lacking left zygomatic arch and first upper left premolar.

Measurements: Skin: total length, 285 mm.; tail vertebrae, 120; hind foot, 40. Skull: greatest length, 47.5; length of maxillary tooth row, 8.5.

_Sciurus_ ( _Guerlinguetus_ ) _caucensis_ Nelson


Skin in good condition. Skull lacking first upper left premolar and last lower right molar.

Measurements: Skin: total length, 305 mm.; tail vertebrae, 145; hind foot, 38. Skull: greatest length, 40.8; zygomatic breadth, 24; length of maxillary tooth row, 6.8.

_Guerlinguetus pucheranii salentensis_ J. A. Allen


Skin in good condition. Skull not definitely located. A skull originally without number, belonging to this series, in provisionally considered as the type; lacking left side of mandible.

Allen described No. 32840 but labeled No. 32842 as the type specimen, which is an adult male, skin and skull from El Roble, Quindío.
Andes, Colombia, collected November 11, 1911, by L. E. Miller.  

**Measurements:** Skin: total length, 310 mm.; tail vertebrae, 150; hind foot, 40. Skull: greatest length, 41.8; zygomatic breadth, 24.3; length of maxillary tooth row, 7.

**Subgenus Hadrosciurus Allen**

*Sciurus duida* J. A. Allen  
≡ *Hadrosciurus [Sciurus] igniventris duida* (Allen).  

Skin in first-class condition. Skull lacking left bulla and mandible.

**Measurements:** Skin: total length, 560 mm.; tail vertebrae, 290; hind foot, 65. Skull: greatest length, 65.7; zygomatic breadth, 37.8; length of maxillary tooth row, 10.5.

*Sciurus igniventris zamorae* J. A. Allen  

Skin in good condition. Skull lacking front upper left premolar, right side of mandible broken.

**Measurements:** Skin: total length, 520 mm.; tail vertebrae, 230; hind foot, 50 (dry, c.u., 62.5). Skull: greatest length, 58.8; zygomatic breadth, 33.6; length of maxillary tooth row, 9.5.

*Sciurus langsdorffii urucumus* J. A. Allen  

Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 440 mm.; tail vertebrae, 230; hind foot, 60. Skull: greatest length, 57.2; zygomatic breadth, 33; length of maxillary tooth row, 8.4.

**Subgenus Simosciurus Allen**

*Sciurus stramineus zarumae* J. A. Allen  

Skin in good condition. Skull lacking zygomatic arches and part of rostrum.

**Measurements:** Skin: total length, 540 mm.; tail vertebrae, 320 (dry, 255); hind foot, 70. Skull: length of maxillary tooth row, 10.5.

**Genus Microsciurus Allen**

*Sciurus* (Microsciurus) *alfari* J. A. Allen  


Skin in moderately good condition. Skull lacking part of right zygoma.

**Measurements:** Skin (dry): total length, 244 mm.; tail vertebrae, 98; hind foot, 36. Skull: greatest length, 36.8; zygomatic breadth, 22; length of maxillary tooth row, 5.6.

*Microsciurus septenrtionalis* Anthony  


Skin in good condition. Skull lacking first three maxillary teeth on right side and first maxillary tooth on left.

**Measurements:** Skin: total length, 240 mm.; tail vertebrae, 100; hind foot, 30. Skull:
greatest length, 36; zygomatic breadth, 21.6; length of maxillary tooth row, 5.6.

**Microsciurus alfari alticola** Goodwin


**Measurements:** Skin: total length, 248 mm.; tail vertebrae, 118; hind foot, 39. Skull: greatest length, 36.9; zygomatic breadth, 21.7; length of maxillary tooth row, 5.5.

**Sciurus (Microsciurus) similis** Nelson


**Measurements:** Skin (dry): total length, 245 mm.; tail vertebrae, 98; hind foot, 34.

**Microsciurus florenciae** J. A. Allen

33695/34370. Skin and skull. Adult male. Florencia, Caquetá district, Colombia. Altitude, 1000 feet. January 27, 1912. Collector: L. E. Miller. Original number 840. Skin in good condition. Skull lacking first and last right and the first two left maxillary teeth, also the first and last teeth on both sides of the mandible.

**Measurements:** Skin: total length, 270 mm.; tail vertebrae, 120; hind foot, 40. Skull: greatest length, 39.5; zygomatic breadth, 23.7; length of maxillary tooth row, 7.2.

**Sciurus (Microsciurus) peruanus** J. A. Allen


**Measurements:** Skin (dry): total length, 280 mm.; tail vertebrae, 110; hind foot, 38. Skull: greatest length, 36.3; zygomatic breadth, 21.5; length of maxillary tooth row, 6.5.

**Microsciurus sabanillae** Anthony


**Measurements:** Skin: total length, 280 mm.; tail vertebrae, 146; hind foot, 41. Skull: greatest length, 37.8; zygomatic breadth, 22.3; length of maxillary tooth row, 6.9.

**Genus SYNTHEOSCIURUS** Bangs

**Sciurus poasensis** Goodwin


**Measurements:** Skin: total length, 295 mm.; tail vertebrae, 140; hind foot (dry), 43.7. Skull: greatest length, 38.7; zygomatic breadth, 24.8; length of maxillary tooth row, 7.4.

**Genus TAMIASCIURUS** Trouessart

**Sciurus hudsonicus minnesota** J. A. Allen


Sciurus hudsonicus dakotensis J. A. Allen


Sciurus hudsonicus streatori J. A. Allen


Sciurus hudsonicus vancouverensis J. A. Allen


Tamiasciurus hudsonicus columbiensis Howell


Sciurus hudsonicus californicus J. A. Allen

Sciurus douglasii abalimbatus J. A. Allen


Sciurus hudsonius mogollonensis Mearns
= Tamiasciurus fremonti mogollonensis (Mearns). According to Ellerman, The families and genera of living rodents, pt. 1, p. 348, June 8, 1940.


region and mandible broken. Type skull not recorded in catalogue.

**Measurements:** Skin (type): total length, 395 mm.; tail vertebrae, 136; hind foot, 54.

**Skull** (paratype): zygomatic breadth, 28.4; length of maxillary tooth row, 8.3.

**Sciusrus hudsonicus grahamensis** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 330 mm.; tail vertebrae, 132; hind foot, 53. Skull: greatest length, 47.5; zygomatic breadth, 27; length of maxillary tooth row, 8.5.

**Genus RATUFA** Gray

**Ratufa gigantea hainana** J. A. Allen


Skin in good condition. Skull complete, teeth well worn.

**Measurements:** Skin (dry): total length, 740 mm.; tail vertebrae, 410; hind foot, 85. Skull: greatest length, 73.5; zygomatic breadth, 45.8; length of maxillary tooth row, 14.5.

**Genus FUNISCIURUS** Trouessart

**Funisciurus anerythrus niapu** J. A. Allen


Skin in good condition. Skull lacking first upper right premolar.

**Measurements:** Skin: total length, 359 mm.; tail vertebrae, 169; hind foot, 47. Skull: greatest length, 45.7; zygomatic breadth, 25.5; length of maxillary tooth row, 8.3.

**Genus HELIOSCIURUS** Trouessart

**Heliosciurus rufobrachium medjanius** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 502 mm.; tail vertebrae, 278; hind foot, 59. Skull: greatest length, 53.2; zygomatic breadth, 30.5; length of maxillary tooth row, 10.3.

**Heliosciurus rufobrachium rubricatus** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 552 mm.; tail vertebrae, 297; hind foot, 61. Skull: greatest length, 55.4; zygomatic breadth, 31.5; length of maxillary tooth row, 10.9.

**Genus CALLOSCIURUS** Gray

**Sciusrus erythraeus insularis** J. A. Allen


Skin in good condition. Skull lacking occipital region.

**Measurements:** Skin (dry): total length, 450 mm.; tail vertebrae, 200; hind foot, 47.5. Skull: zygomatic breadth, 31; length of maxillary tooth row, 10.

*Callosciurus aladeni vernayi* Carter

= *Callosciurus flaminus vernayi* Carter. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 483, November 19, 1951.


**Measurements:** Skin: total length, 493 mm.; tail vertebrae, 258; hind foot 55. Skull: greatest length, 54.3; zygomatic breadth, 52.2; length of maxillary tooth row, 10.3.

*Sciurus beebei* J. A. Allen


= (?) *Callosciurus quinquestriatus quinquestriatus* Anderson. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 488, November 19, 1951.

32624. Skin only. Adult female. Erroneously labeled as coming from 10 miles south of Kuching, Sarawak, Borneo. June 26, 1910. Collector: C. W. Beebe. Kuser-Beebe Pheasant Expedition number 40. The field label was apparently transposed with that of another squirrel collected on the Kuser-Beebe Pheasant Expedition, No. 32625, *Callosciurus vittatus*. The geographical distribution of the two species of squirrels is such that a transposition of the labels must have taken place. Furthermore the type, No. 32624, is a male, labeled female, and No. 32625 is a female, labeled male. The type locality can now be fixed as Sanzi Gorge, Burma-Yunnan frontier. December 7, 1910. Adult male. Collector: C. W. Beebe. Original number 587.

Skin in good condition. No skull.

**Measurements:** Skin (dry): total length, 430 mm.; tail vertebrae, 202; hind foot, 51.

**Subgenus TAMIOPS**

*Tamios sauteri* J. A. Allen


**Measurements:** Skin (dry): head and body, 125 mm.; hind foot, 30.

*Tamios maclellandii Hainanus* J. A. Allen


**Measurements:** Skin (dry): total length, 212 mm.; tail vertebrae, 95; hind foot, 28. Skull: zygomatic breadth, 20; length of maxillary tooth row, 5.7.

*Tamios maclellandii Ruidoni* J. A. Allen


26672. Skin and skull. Adult male. Ruidon, east of Lei-Mui-Mon, in the foothills of
central mountain range, Hainan, China. March 5, 1903. Purchased from Alan Owston of Yokohama, taken by his agents. Original number 1. Skin in fair condition. Skull lacking zygomatic arches and occipital region.

**MEASUREMENTS:** Skin: total length, 10 1/4 inches. Skull: length of maxillary tooth row, 6.0 mm.

**Genus HYOSCIURUS** Tate

*Hyosciurus heinrichi* Tate


**MEASUREMENTS:** Skin: total length, 315 mm.; tail vertebrae, 104; hind foot (s.u.), 51. Skull: greatest length, 64.4; zygomatic breadth, 30; length of maxillary tooth row, 11.

*Hyosciurus heinrichi ileile* Tate


**MEASUREMENTS:** Skin: total length, 329 mm.; tail vertebrae, 133; hind foot (s.u.), 51. Skull: greatest length, 57; zygomatic breadth, 29.7; length of maxillary tooth row, 11.

**Genus DREMOMYS** Heude

*Funambulus riudonensis* J. A. Allen


Skin in fair condition. Skull incomplete, lacking occipital region and all of mandible except right side.

**MEASUREMENTS:** Skin: total length, 305 mm.; tail vertebrae, 135; hind foot, 45. Skull: length of maxillary tooth row, 10.

**Genus SCIUROTAMIAS** Miller

*Sciurotamias owstoni* J. A. Allen


**MEASUREMENTS:** Skin (dry): head and body, 175 mm.; tail vertebrae, 145; hind foot, 50. Skull: zygomatic breadth, 30; length of maxillary tooth row, 9.7.

**Genus MARMOTA** Frisch

*Marmota engelhardti* J. A. Allen


**MEASUREMENTS:** Skin (dry): total length, 640 mm.; tail vertebrae, 160; hind foot, 70. Skull: greatest length, 74; zygomatic breadth, 48.3; length of maxillary tooth row, 19.

**Genus CYNOMYS** Rafinesque

*Cynomys parvidens* J. A. Allen


MEASUREMENTS: Skin (dry): total length, 340 mm.; tail vertebrae, 40; hind foot, 53. Skull: greatest length, 62; zygomatic breadth, 43; length of maxillary tooth row, 15.

_Cynomys arizonensis_ Mearns


MEASUREMENTS: Skin (type): total length, 370 mm.; tail vertebrae, 73; hind foot, 58. Skull (paratype): greatest length, 64.2; zygomatic breadth, 43.6; length of maxillary tooth row, 16.3.

**Genus** _Citellus_ Oken

**Subgenus** _Citellus_ Oken

_Citellus pygmaeus kazakstanicus_ Goodwin


MEASUREMENTS: Skin: total length, 190 mm.; tail vertebrae, 35; hind foot, 33. Skull: greatest length, 38; zygomatic breadth, 26; length of maxillary tooth row, 9.5.

_Citellus columbianus Albertae_ J. A. Allen


MEASUREMENTS: Skin: total length, 12 10/16 inches; tail vertebrae, 4 3/16 inches; hind foot, 2 4/16 inches. Skull: greatest length, 52.5 mm.; zygomatic breadth, 33; length of maxillary tooth row, 11.3.

_Citellus buxtoni_ J. A. Allen


=*Citellus undulatus leucostictus* Brandt. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 511, November 19, 1951.


MEASUREMENTS: Skin: total length, 377 mm.; tail vertebrae, 93; hind foot, 60. Skull: greatest length, 57.8; length of maxillary tooth row, 11.8.

_Citellus stonei_ J. A. Allen


MEASUREMENTS: Skin (dry): total length, 350 mm.; tail vertebrae, 100; hind foot, 59. Skull: greatest length, 59.5; zygomatic breadth, 36.5; length of maxillary tooth row, 13.

**Subgenus** _Ictidomys_ Allen

_Spermophilus tridecemlineatus olivaceus_ J. A. Allen
1953

GOODWIN: TYPE SPECIMENS OF MAMMALS


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 10 3/16 inches; tail vertebrae, 3 8/16 inches; hind foot, 1 5/16 inches. Skull: greatest length, 37.2 mm.; zygomatic breadth, 20.3; length of maxillary tooth row, 7.2.

Spermophilus tridecemlineatus parvus J. A. Allen


Skin in good condition. Skull lacking zygomatic arches and part of braincase on right side.

MEASUREMENTS: Skin: total length, 192 mm.; tail vertebrae, 71; hind foot, 29. Skull: greatest length, 35.5; length of maxillary tooth row, 6.

Subgenus AMMOSPERMOPHILUS Merriam

Tamias leucurus peninsulae J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 213 mm.; tail vertebrae, 50; hind foot, 35.3. Skull: greatest length, 41.5; zygomatic breadth, 23.5; length of maxillary tooth row, 7.

Subgenus CALLOSPPERMOPHILUS Merriam

Tamias wortmani J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 282 mm.; tail vertebrae, 92; hind foot, 44. Skull: greatest length, 46; zygomatic breadth, 28.5; length of maxillary tooth row, 8.5.

Genus TAMIAS Illiger

Tamias striatus griseus Mearns


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 283 mm.; tail vertebrae, 108; hind foot, 36. Skull: greatest length, 40.7; zygomatic breadth, 22.6; length of maxillary tooth row, 6.2.

Genus EUTAMIAS Trouessart

Eutamias leucurus J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin (dry): total length, 194 mm.; tail vertebrae, 86.5; hind foot, 28. Skull: greatest length, 30; zygomatic breadth, 16.5; length of maxillary tooth row, 4.5.

Tamias quadriovittatus affinis J. A. Allen


Skin in fair condition, somewhat grease burnt on abdomen. Skull complete.

Measurements: Skin (dry): total length, 225 mm.; tail vertebrae, 94.5; hind foot, 29.5. Skull: greatest length, 34.2; zygomatic breadth, 18.7; length of maxillary tooth row, 5.

Eutamias amoenus propinquus Anthony


Skin in good condition. Skull complete.

Measurements: Skin: total length, 207 mm.; tail vertebrae, 90; hind foot, 32. Skull: greatest length, 32.5; zygomatic breadth, 18; length of maxillary tooth row, 5.3.

Tamias frater J. A. Allen


Skin in fair condition. Skull lacking right zygomatic arch and right side of mandible.

Measurements: Skin: total length, 9 1/4 inches; tail vertebrae, 4 1/4 inches. Skull: greatest length, 35.7; length of maxillary tooth row, 5.

Eutamias adsitus J. A. Allen


Skin in fair condition. Skull damaged but repaired, lacking left zygoma and right bulla.

Measurements: Skin (dry): total length, 230 mm.; tail vertebrae, 95; hind foot, 31. Skull: greatest length, 34.7; length of maxillary tooth row, 5.2.

147870. Skin and skull. Adult female. Locality and date and collector same as for No. 28728. Original Brooklyn Museum label is numbered "391 [452]" and is marked type specimen with publication reference.

Skin in rather poor condition, lacking posterior part of tail. Skull mutilated but partly restored.

This may be the type, as Engelhardt remarked, "I shot one, mutilating it greatly."

Measurements: Skin (dry): head and body, 142 mm.; hind foot, 31.2. Skull: greatest length, 35.2; length of maxillary tooth row, 4.9.

Tamias asiaticus bulleri J. A. Allen


= Eutamias [bulleri] bulleri (Allen). According to

1 There are two type specimens identical in size and color with the same Brooklyn Museum number, though Engelhardt reportedly collected only one from the type locality.


Skins in fair condition. Skulls complete. MEASUREMENTS: Skins (dry): total length, 222 mm. 215; tail vertebrae, 87.3, 89; hind foot, 33.5, 33. Skulls: greatest length, 37.8, 37.5; zygomatic breadth, 20.4, 20; length of maxillary tooth row, 5.8, 6.

**Eutamias durangae** J. A. Allen


Skin in good condition. Skull complete. MEASUREMENTS: Skin: total length, 239.7; tail vertebrae, 98.4; hind foot, 31. Skull: greatest length, 38.6; zygomatic breadth, 21; length of maxillary tooth row, 6.

**Tamias asiaticus merriami** J. A. Allen


Skin in good condition. Skull complete. MEASUREMENTS: Skin: head and body, 5.5 inches; tail vertebrae, 4.8 inches; hind foot, 33 mm. Skull: greatest length, 40.5 mm.; zygomatic breadth, 21; length of maxillary tooth row, 7.

**Tamias pricei** J. A. Allen


Skin in good condition. Skull complete. MEASUREMENTS: Skin: total length, 256 mm.; tail vertebrae, 124; hind foot, 36. Skull: greatest length, 38.5; zygomatic breadth, 20; length of maxillary tooth row, 5.7.

**Eutamias canescens** J. A. Allen


Skin in good condition. Skull complete. MEASUREMENTS: Skin: total length, 254 mm.; tail vertebrae, 114; hind foot, 35. Skull: greatest length, 38; zygomatic breadth, 20; length of maxillary tooth row, 5.1.

**Eutamias albogularis** J. A. Allen


Skin in good condition. Skull lacking occipital and basicranial regions.

MEASUREMENTS: Skin (dry): head and body, 160 mm.; tail vertebrae, 120; hind foot, 40. Skull: length of maxillary tooth row, 7.

**Genus Petaurista** Link

**Petaurista peteurista rufigen** G. M. Allen

Amer. Mus. Novitates, no. 163, pp. 13–14, April 2, 1925.

Skin in poor condition. Skull lacking upper portion of braincase. 

**MEASUREMENTS:** Skin (dry): head and body, 375 mm.; tail vertebrae, 330; hind foot, 74. Skull: greatest length, 63.5; zygomatic breadth, 43.2; length of maxillary tooth row, 14.

**Petaurista hainana** G. M. Allen


Skin in good condition. Skull lacking both front upper premolars.

**MEASUREMENTS:** Skin: head and body, 445 mm.; tail vertebrae, 595; hind foot, 84. Skull: greatest length, 75; zygomatic breadth, 49; length of maxillary tooth row, 17.

**Petaurista cineraceus stockleyi** Carter
Amer. Mus. Novitates, no. 674, p. 1, November 6, 1933.


Skin in good condition.

**MEASUREMENTS:** Skin (dry): total length, 980 mm.; tail vertebrae, 450; hind foot, 82.

**GENUS HYLOPETES** THOMAS

**Pteromys** (Petinomys) electilis G. M. Allen
Amer. Mus. Novitates, no. 163, p. 16, April 2, 1925.

= *Hylopetes electilis* (Allen). Cranial characters of *P. electilis* Allen are referable to the genus *Hylopetes*.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: head and body, 172 mm.; tail vertebrae, 159; hind foot, 35. Skull: greatest length, 41.5; zygomatic breadth, 25; length of maxillary tooth row, 8.

**GENUS PETINOMYS** THOMAS

**Pteromys** (Olisthomys) morrisi Carter


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 258 mm.; tail vertebrae, 123; hind foot 26. Skull: greatest length, 32.1; zygomatic breadth, 19.5; length of maxillary tooth row, 5.8.

**GENUS GLAUCOMYS** THOMAS

**Glaucomys volans underwoodi** Goodwin


Skin in good condition. Skull with zygomatic arches and base of braincase crushed.

**MEASUREMENTS:** Skin: head and body, 136 mm.; tail vertebrae, 105; hind foot, 29. Skull: greatest length, 35.7; length of maxillary tooth row, 6.5.

**FAMILY GEOMYIDAE** Gill

**GENUS GEOMYS** Rafinesque

**Geomys personatus fuscus** Davis
Texas Agric. Exp. Station Bull., no. 590, pp. 30–31, August, 1940.


Skin in fair condition, epidermis slipped on abdomen. Skull complete.

**MEASUREMENTS:** Skin: total length, 229 mm.; tail vertebrae, 68; hind foot, 30. Skull:
greatest length, 39; zygomatic breadth, 22.2; length of maxillary tooth row, 7.7.

**GENUS THOMOMYS WIED**

_Thomomys fulvus martirensis_ J. A. Allen


Skin in fair condition. Skull lacking left zygomatic arch and occipital region.

**MEASUREMENTS:** Skin: total length, 230 mm.; tail vertebrae, 60; hind foot, 27. Skull: greatest length, 43.5; zygomatic breadth, 27; length of maxillary tooth row, 8.8.

_Thomomys rufescens_ Wied


636. Skin and skull. Adult male. “Minnetaree Village” (about 6 miles south of Stanton, on west side of the Missouri River), now Old Fort Clark, Oliver County, North Dakota. 1833. Collector: Maximilian, Prince of Wied.

A mounted specimen with skull inside, much faded but in fair condition. The old original label from the base, now lost, bore the legend “Thomomys rufescens’ Wied, Machtohpka indigen,” and also “Mas Missouri.”

**MEASUREMENTS:** Skin: hind foot, 30 mm.

_Thomomys fossor_ J. A. Allen


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin (dry): total length, 285 mm.; tail vertebrae, 60; hind foot, 27.8. Skull: greatest length, 40 mm.; zygomatic breadth, 21.8; length of maxillary tooth row, 8.
Genus MACROGEOMYS Merriam

Geomys cherriei J. A. Allen


Skin in poor condition. Skull lacking left upper incisor and first right lower molar.

Measurements: Skin (dry): total length, 275 mm.; tail vertebrae, 80; hind foot, 38.5. Skull: greatest length, 53; zygomatic breadth, 33.7; length of maxillary tooth row, 11.6.

Macrogomys cherriei carlosensis Goodwin
Amer. Mus. Novitates, no. 1227, p. 3, April 22, 1943.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 323 mm.; tail vertebrae, 88; hind foot, 41. Skull: greatest length, 60.5; zygomatic breadth, 39.2; length of maxillary tooth row, 13.

Macrogomys matagalpae J. A. Allen


Skin in good condition. Skull badly crushed, lacking postorbital portions.

Measurements: Skin: total length, 320 mm.; tail vertebrae, 80; hind foot, 40. Skull: length of maxillary tooth row, 12.5.

Macrogomys heterodus cartagoensis Goodwin
Amer. Mus. Novitates, no. 1227, pp. 2–3, April 22, 1943.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 350 mm.; tail vertebrae, 59 (dry, 76.8); hind foot, 51. Skull: greatest length, 68; zygomatic breadth, 39.7; length of maxillary tooth row, 14.4.

Family HETEROMYIDAE Allen and Chapman

Genus PEROGNATHUS Wied

Perognathus merriami J. A. Allen


Skin in good condition. Skull lacking part of zygomatic arch on right side.

Measurements: Skin: total length, 124 mm.; tail vertebrae, 58; hind foot, 18. Skull: greatest length, 20.3; zygomatic breadth, 11.1; length of maxillary tooth row, 2.5.

Perognathus mearnsi J. A. Allen


Skin in good condition. Skull not located.

Measurements: Skin: total length, 4.30 inches; tail vertebrae, 2.05 inches; hind foot, 0.55 inch. Skull: greatest length, 18.5 mm.; zygomatic breadth, 11.

Perognathus flavus sanluisi Hill


Skin in good condition. Skull complete.
Measurements: Skin: total length, 109 mm.; tail vertebrae, 46; hind foot, 15. Skull: greatest length, 20; zygomatic breadth, 9.6; length of maxillary tooth row, 3.

Perognathus pricei J. A. Allen


Perognathus (Chaetodipus) femoralis J. A. Allen

3386/2659. Skin and skull. Adult male. Dulzura, San Diego County, California. February 12, 1891. Collector: C. H. Marsh. Skin in fair condition. Skull complete. Measurements: Skin: head and body, 3 1/2 inches; tail vertebrae, 6 inches; hind foot (dry), 27.5 mm. Skull: greatest length, 27.4 mm.; zygomatic breadth, 13.8; length of maxillary tooth row, 3.7

Perognathus conditi J. A. Allen


Genus Dipodomys Gray

Dipodomys merriami Mearns


Dipodomys chapmani Mearns


Perodipus obscurus J. A. Allen


Dipodops richardsoni J. A. Allen

Dipodops sennetti J. A. Allen


Genus LIOMYS Merriam

Heteromys hispidus J. A. Allen


Heteromys pictus escuinapae J. A. Allen


Heteromys vulcani J. A. Allen


Liomyx anthonyi Goodwin


Heteromys jaliscensis J. A. Allen

Measurements: Skin: total length, 9
1/8 inches; tail vertebrae, 4 3/8 inches; hind
foot, 1 inch. Skull: greatest length, 31.5 mm.;
zygomatic breadth, 14.8; length of maxillary
tooth row, 5.2.

Genus Heteromys Desmarest

Heteromys desmarestianus underwoodi Goodwin
Amer. Mus. Novitates, no. 1227, pp. 1–2, April
22, 1943.

131729. Skin and skull. Adult male. Escazu,
a small town 7 miles southwest of San José,
Province of San José, Costa Rica. Altitude,
3000 feet. April 28, 1938. Collector: C. F.
Underwood. Original number 3089.
Skin in fair condition. Skull complete.
Measurements: Skin: total length, 284
mm.; tail vertebrae, 148 (dry, 155); hind
foot, 30. Skull: greatest length, 34.5; zygomatic
breath, 15.6; length of maxillary tooth row,
5.

Heteromys gaumeri J. A. Allen and Chapman
9–11, February 23, 1897.

12028/10461. Skin and skull. Adult male.
Chichen-Itza, Yucatan, Mexico. March 17,
Skin in good condition. Skull cut off
behind interorbital region.
Measurements: Skin: total length, 292
mm.; tail vertebrae, 163; hind foot, 32. Skull:
length of maxillary tooth row, 4.7.

Heteromys fuscatu J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 24, art. 34,
pp. 652–653, October 13, 1908.
= Heteromys desmarestianus fuscatu Allen. According
to Goldman, Jour. Washington Acad.
Sci., vol. 27, no. 10, p. 419, October 15, 1937.

28451. Skin and skull. Adult male. Tuma,
Nicaragua. December 1, 1907. Collector:
W. B. Richardson. Original number 153.
Skin in fair condition. Skull complete.
Measurements: Skin: total length, 300
mm.; tail vertebrae, 150; hind foot, 30. Skull:
greatest length, 36.5; zygomatic breadth, 17;
length of maxillary tooth row, 5.2.

Heteromys jesupi J. A. Allen
201–203, December 20, 1899.

15347. Skin and skull. Adult female. Below
Minca, Santa Marta District, Colombia.

Altitude, 1000 feet. July 30, 1899. Collect-
tor: Mrs. H. H. Smith. Morris Jesup Santa
Marta Expedition. Original number 1025.
Skin in fair condition. Skull complete.
Measurements: Skin: total length, 330
mm.; tail vertebrae, 163; hind foot, 33.
Skull: greatest length, 36.5; zygomatic
breath, 16.5; length of maxillary tooth row,
5.5.

Heteromys lomitensis J. A. Allen
77, April 19, 1912.

32240. Skin and skull. Adult female. Las
Lomitas, Cauca, Colombia. Altitude, 5000
feet. West side of Andes. March 1, 1911.
Collector: W. B. Richardson. Original number 87.
Skin in fair condition. Skull complete (the
type label specifies "no skull").
Measurements: Skin: total length, 250
mm.; tail vertebrae, 130; hind foot, 30. Skull:
greatest length, 35; zygomatic breadth, 16;
length of maxillary tooth row, 4.5.

Family Castoridae Gray

Genus Castor Linnaeus

Castor canadensis carolinensis Rhoads
420, September, 1898.

16601. Skin and skull. Adult male. Dan
River, near Danbury, Stokes County,
North Carolina. April 7, 1897. Collector:
H. H. Brumley. Original number 607.
(Exchange with North Carolina State
Museum.)
Skin in good condition, lacking right front
leg. Skull lacking last upper left molar.
Measurements: Skin: total length, 3 feet,
8 1/2 inches; tail, 11 by 6 3/8 inches. Skull:
greatest length, 143 mm.; zygomatic breadth,
106; length of maxillary tooth row, 34.

Family Anomaluridae Gill

Genus Anomalurus Matschie

Anomalurus beecrofti chapini J. A. Allen
65–67, October 27, 1922.

50480. Skin and skull. Adult male. Medje,
Belgian Congo. May 6, 1910. Collectors:
H. Lang and J. P. Chapin. American
Museum Congo Expedition. Original num-
ber 861.
Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 512 mm.; tail vertebrae, 202; hind foot, 59. Skull: greatest length, 54.5; zygomatic breadth, 34.4; length of maxillary tooth row, 11.9.

**Genus IDIURUS** Matschie

**Idiurus langi** J. A. Allen


Skin in good condition. Skull lacking all molar teeth except first and last upper molars on right and left side and first lower right molar.

**Measurements:** Skin: total length, 224 mm.; tail vertebrae, 130; hind foot, 20. Skull: greatest length, 26; zygomatic breadth, 16; length of maxillary tooth row, 3.5.

**Idiurus panga** J. A. Allen


Skin in fair condition, lacking entire tail. Skull lacking interparietal.

**Measurements:** Skin: total length, 209 mm.; tail vertebrae, 126; hind foot, 20. Skull: greatest length, 25.2; zygomatic breadth, 14.8; length of maxillary tooth row, 3.5.

**Family CRICETIDAE** Rochebrune

**Genus ORYZOMYS** Baird

**Subgenus ORYZOMYS** Baird

**Oryzomys palustris natator** Chapman


Skin in good condition. Skull complete except for broken zygomatic arches.

**Measurements:** Skin: total length, 295 mm.; tail vertebrae, 143; hind foot (dry), 33. Skull: greatest length, 33.5; zygomatic breadth, 17.5; length of maxillary tooth row, 4.9.

**Oryzomys palustris texensis** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 277 mm.; tail vertebrae, 139; hind foot, 30.5. Skull: greatest length, 31.5; zygomatic breadth, 15.5; length of maxillary tooth row, 4.4.

**Oryzomys jalapae** J. A. Allen and Chapman


Skin in good condition. Skull complete except for last upper and lower left molars.

**Measurements:** Skin: total length, 278 mm.; tail vertebrae, 140; hind foot, 30. Skull: greatest length, 31.8; zygomatic breadth, 15.9; length of maxillary tooth row, 4.8.

**Oryzomys richardsoni** J. A. Allen


Skin in good condition. Skull with incisors broken and left side of rostrum crushed.

**Measurements:** Skin: total length, 270 mm.; tail vertebrae, 150; hind foot, 32.5. Skull: greatest length, 31; length of maxillary tooth row, 4.5.

**Oryzomys mexicanus** J. A. Allen

52–53, March 15, 1897.


Skin in good condition. Skull crushed in occipital region but repaired.

Measurements: Skin (dry): total length, 279 mm.; tail vertebrae, 142; hind foot, 30. Skull: greatest length, 31; length of maxillary tooth row, 4.8.

Orzyomys bulleri J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin (dry): total length, 242 mm.; tail vertebrae, 127; hind foot, 27. Skull: greatest length, 27.8; zygomatic breadth, 14.5; length of maxillary tooth row, 4.5.

Orzyomys aquaticus J. A. Allen


Skin in good condition. Skull lacking occipital region.

Measurements: Skin: total length, 11 2/5 inches; tail vertebrae, 5 1/2 inches; hind foot (dry), 31 mm. Skull: greatest length, 32.5 mm.; zygomatic breadth, 17.9; length of maxillary tooth row, 5.3.

Alfaroi Group

Hesperomys (Orzyomys) alfaroi J. A. Allen


Skin in fair condition, tail incomplete. Skull cut off behind zygomatic arches.

Measurements: Skin (dry): total length, 161 mm.; tail vertebrae, 59; hind foot, 26.2. Skull: zygomatic breadth, 13.3; length of maxillary tooth row, 3.7.

Orzyomys alfaroi incertus J. A. Allen


Skin in fair condition. Skull with braincase crushed and lacking all upper molars but one.

Measurements: Skin: total length, 190 mm.; tail vertebrae, 100; hind foot, 20.5. Skull: greatest length, 26; zygomatic breadth, 14; length of maxillary tooth row, 3.9.

Balneator Group

Orzyomys balneator hesperus Anthony

Amer. Mus. Novitates, no. 139, pp. 7–8, October 20, 1924.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 221 mm.; tail vertebrae, 127; hind foot, 27. Skull: greatest length, 24.5; zygomatic breadth, 12.9; length of maxillary tooth row, 3.2.

Talamancan Group

Orzyomys carrikeri J. A. Allen


= Orzyomys talamancan Allen. According to Gold-
man, North Amer. Fauna, no. 43, p. 73, September 23, 1918.

Skin in good condition. Skull complete. Measurements: Skin: total length, 265 mm.; tail vertebrae, 133; hind foot, 30.5. Skull: greatest length, 31.7; zygomatic breadth, 14.5; length of maxillary tooth row, 4.5.

_Laticeps_ Group

**Oryzomys velutinus** J. A. Allen and Chapman


Skin in good condition. Skull lacking right bulla.

Measurements: Skin: total length, 250 mm.; tail vertebrae, 118; hind foot, 26. Skull: greatest length, 33; zygomatic breadth, 15.5; length of maxillary tooth row, 4.5.

**Oryzomys modestus** J. A. Allen


Skin in poor condition, grease burnt. Skull lacking occipital region.

Measurements: Skin: total length, 220 mm.; tail vertebrae, 100; hind foot, 25. Skull: zygomatic breadth, 15; length of maxillary tooth row, 4.6.

**Oryzomys magdalenae** J. A. Allen


Skin in good condition. Skull complete. Measurements: Skin: total length, 244 mm.; tail vertebrae, 144; hind foot, 33. Skull: greatest length, 31.5; zygomatic breadth, 14.6; length of maxillary tooth row, 4.5.

**Oryzomys mollipilosus** J. A. Allen


Skin in good condition. Skull fragmentary.

Measurements: Skin: total length, 233 mm.; tail vertebrae, 110; hind foot, 28. Skull: length of maxillary tooth row, 4.5.

**Oryzomys palmirensis** J. A. Allen


Skin in good condition. Skull lacking bullae.

Measurements: Skin: total length, 215 mm.; tail vertebrae, 110; hind foot, 26. Skull: greatest length, 27; zygomatic breadth, 13.8; length of maxillary tooth row, 4.3.

_Bombycinus_ Group

**Oryzomys nitidus alleni** Goldman


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 218 mm.; tail vertebrae, 111; hind foot, 29. Skull: greatest length, 28.2; zygomatic breadth, 14.3; length of maxillary tooth row, 4.3.
Albicularis Group

Oryzomys villosus J. A. Allen


Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 275 mm.; tail vertebrae, 148; hind foot, 28. Skull: greatest length, 32.6; zygomatic breadth, 17.5; length of maxillary tooth row, 5.4.

Oryzomys pectoralis J. A. Allen


Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 317 mm.; tail vertebrae, 161.5; hind foot, 36. Skull: greatest length, 36; zygomatic breadth, 19; length of maxillary tooth row, 5.3.

Oryzomys incertus J. A. Allen

Oryzomys mureliae J. A. Allen


Skin in good condition. No skull.
MEASUREMENTS: Skin: total length, 270 mm.; tail vertebrae, 150; hind foot (dry), 34.

Oryzomys o'connelli J. A. Allen

MEASUREMENTS: Skin: total length, 302 mm.; tail vertebrae, 153; hind foot, 38. Skull: greatest length, 36; zygomatic breadth, 18.3; length of maxillary tooth row, 5.4.

Oryzomys keaysi J. A. Allen

MEASUREMENTS: Skin: total length, 355 mm.; tail vertebrae, 197; hind foot, 38. Skull: total length, 38.3; zygomatic breadth, 19; length of maxillary tooth row, 6.

Oryzomys obtusirostris J. A. Allen


Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 227 mm.; tail vertebrae, 127; hind foot, 27. Skull: greatest length, 29.8; zygomatic breadth, 16; length of maxillary tooth row, 6.

Oryzomys maculiventer J. A. Allen


Skin in good condition. Skull complete.
Measurements: Skin: total length, 335 mm.; tail vertebrae, 170; hind foot, 32. Skull: greatest length, 34.6; zygomatic breadth, 18.2; length of maxillary tooth row, 5.5

**Oryzomys auriventer nimbosus** Anthony

Skin in very good condition. Skull complete.

Measurements: Skin: total length, 304 mm.; tail vertebrae, 164; hind foot, 34. Skull: greatest length, 35.5; zygomatic breadth, 17.9; length of maxillary tooth row, 5.7.

**Xanthaeolus Group**

**Oryzomys baroni** J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 290 mm.; tail vertebrae, 160; hind foot, 30. Skull: greatest length, 35.6; zygomatic breadth, 18; length of maxillary tooth row, 5.4.

**Subgenus Oligoryzomys** Bangs

**Oryzomys costaricensis** J. A. Allen


Skin in poor condition. Skull not definitely located but probably the type skull is number 7922.

Measurements: Skin: total length, 7.5 inches; tail vertebrae, 4.5 inches; hind foot (dry), 21 mm. Skull: greatest length, 19.5; zygomatic breadth, 10.2; length of maxillary tooth row, 3.

**Oryzomys (Oligoryzomys) nicaragucae** J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 180 mm.; tail vertebrae, 110; hind foot, 20. Skull: greatest length, 21.5; zygomatic breadth, 11.2; length of maxillary tooth row, 2.7.

**Oryzomys fulvescens creper** Goodwin


Skin in good condition. Skull complete.

Measurements: Skin: total length, 197 mm.; tail vertebrae, 105 (dry, 115); hind foot, 22. Skull: greatest length, 22.9; zygomatic breadth, 12; length of maxillary tooth row, 2.5.

**Oryzomys fulvescens reventazoni** Goodwin


Skin in good condition. Skull complete.

Measurements: Skin: total length, 182 mm.; tail vertebrae, 114; hind foot, 22. Skull: greatest length, 21.45; zygomatic breadth, 11; length of maxillary tooth row, 2.8.

**Oryzomys delicatus** J. A. Allen and Chapman

Skin in poor condition, lacking the head and the tail. Skull lacking left side of rostrum.

**Measurements:**
- Skin: hind foot, 21 mm.
- Skull: greatest length, 23; zygomatic breadth, 11.8 (not 6.5 as in type description); length of maxillary tooth row, 3.

**Oryzomys tenuipes** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:**
- Skin: total length, 180 mm.; tail vertebrae, 100; hind foot, 22. Skull: greatest length, 22.5; zygomatic breadth, 11.3; length of maxillary tooth row, 3.1.

**Oryzomys (Oligoryzomys) microtis** J. A. Allen


Skin in good condition. Skull complete except for left zygomatic arch.

**Measurements:**
- Skin: total length, 183 mm.; tail vertebrae, 90; hind foot, 20. Skull: greatest length, 22.8; zygomatic breadth, 11.5; length of maxillary tooth row, 3.

**Oryzomys (Oligoryzomys) munchiquensis** J. A. Allen


Skin in good condition. Skull lacking right zygomatic arch and all upper molars except last two on right side.

**Measurements:**
- Skin: total length, 220 mm.; tail vertebrae, 120; hind foot, 22. Skull: greatest length, 25; zygomatic breadth, 12.5; length of maxillary tooth row, 3.2.

**Oryzomys (Oligoryzomys) mattogrossae** J. A. Allen


Skin in fairly good condition. Skull crushed, lacking nasals and basal portion of braincase.

**Measurements:**
- Skin: total length, 210 mm.; tail vertebrae, 115; hind foot, 22. Skull: zygomatic breadth, 12.5; length of maxillary tooth row, 3.

**Subgenus** **MICORYZOMYS** **Thomas**

**Oryzomys (Oligoryzomys) fulviostris** J. A. Allen


**Oryzomys (Microryzomys) minutus fulviostris** Allen. According to Osgood, Publ. Field Mus. Nat. Hist., zool. ser., vol. 20, p. 5, December 11, 1933. [Its distinction from *O. m. humilior* Thomas is doubtful.]


Skin in good condition. Skull lacking middle right and front left upper molars and first and second lower left molars.

**Measurements:**
- Skin: total length, 218 mm.; tail vertebrae, 130; hind foot, 23.5. Skull: greatest length, 23; zygomatic breadth, 12; length of maxillary tooth row, 3.
Subgenus Oecomys Thomas

Speciosus Group

Oecomys florenciae J. A. Allen


Skin in fair condition. Skull lost in the field.

Measurements: Skin: total length, 200 mm.; tail vertebrae, 100; hind foot, 22.

Oecomys milleri J. A. Allen


Skin in fair condition. Skull lacking first right upper and both last upper molars, all molars in lower jaws except first two on left side; zygomatic arches broken.

Measurements: Skin: total length, 185 mm.; tail vertebrae, 90; hind foot, 20. Skull: greatest length, 23.8; zygomatic breadth, 12.8; length of maxillary tooth row, 3.7.

Oecomys rutilus Anthony
Amer. Mus. Novitates, no. 19, p. 4, October 26, 1921.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 171 mm.; tail vertebrae, 94; hind foot, 20. Skull: greatest length, 24.2; zygomatic breadth, 13.5; length of maxillary tooth row, 3.4.

Oryzomys speciosus J. A. Allen and Chapman


Skin in fair condition. Skull complete except for right bulla.

Measurements: Skin: total length, 261 mm.; tail vertebrae, 137; hind foot, 24. Skull: greatest length, 30.5; zygomatic breadth, 16.5; length of maxillary tooth row, 4.5.

Mus pyrrhorhinus Schinz
In G.L.C.F. Cuvier, Das Thierreich eingeheilt nach dem Bau der Thiere [Schinz’s translation with additions], vol. 1, p. 288, 1821.

Mus pyrrhorhinus Wied
Beiträge zur Naturgeschichte von Brasilien, vol. 2, pp. 418–424, pl. 2, figs. 3, 4, 1826
= Oryzomys pyrrhorhinus (Schinz). Oecomys is here given subgeneric rating.


Skin, mounted, much faded and without a tail. No skull.

Measurements: (Wied’s): Skin: total length, 12 1/4 inches; tail, 8 3/4 inches.

Oecomys caicarae J. A. Allen


Skin in good condition. Skull not located.

Measurements: Skin: total length, 274 mm.; tail vertebrae, 152; hind foot, 25. Skull: greatest length, 30.2; zygomatic breadth, 13.6; length of maxillary tooth row, 5.

Oecomys phelpsi Tate
1953  GOODWIN: TYPE SPECIMENS OF MAMMALS 301


Skin in poor condition. The type description was based on a mismatched skin and skull. The skull proves to be that of an Akodon aerosus near chapmani Allen.

Measurements: Skin: total length, 213 mm.; tail vertebrae, 123; hind foot (s.u.), 21.

Oryzomys trichurus J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 281 mm.; tail vertebrae, 160; hind foot, 25. Skull: greatest length, 29; zygomatic breadth, 14.8; length of maxillary tooth row, 4.2.

Mincae Group

Oecomys mincae J. A. Allen


Skin in good condition. Skull crushed and not located.

Measurements: Skin: total length, 286 mm.; tail vertebrae, 160; hind foot, 25.

Trinitatus Group

Oryzomys trinitatis J. A. Allen and Chapman


Skin in fair condition, lacking right hind leg. Skull incomplete, lacking middle upper left molar and most of braincase and lower jaws.

Measurements: Skin: total length, 271 mm.; tail vertebrae, 148; hind foot, 25 (dry, 26.5). Skull: greatest length, 32.5; zygomatic breadth, 17.8; length of maxillary tooth row, 5.1.

Oryzomys palmarius J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 269 mm.; tail vertebrae, 150; hind foot, 24 (dry, 27). Skull: greatest length, 31.2; zygomatic breadth, 16.6; length of maxillary tooth row, 5.

Oryzomys fulviventer J. A. Allen


Skin in fair condition. Skull complete except for middle upper right molar.

Measurements: Skin: total length, 270 mm.; tail vertebrae, 139; hind foot (dry), 27. Skull: greatest length, 32; zygomatic breadth, 16.7; length of maxillary tooth row, 5.1.

Oryzomys klagesi J. A. Allen


Skin in fair condition. Skull complete.
Measurements: Skin: total length, 248 mm.; tail vertebrae, 121; hind foot, 25. Skull: greatest length, 32; zygomatic breadth, 17; length of maxillary tooth row, 4.6.

*Oryzomys helvolus* J. A. Allen


Measurements: Skin: total length, 277 mm.; tail, 143; hind foot (dry), 26.5. Skull: greatest length, 33.7; zygomatic breadth, 16.5; length of maxillary tooth row, 5.4.

*Oryzomys vicencianus* J. A. Allen


Measurements: Skin: total length, 250 mm.; tail vertebrae, 130; hind foot (dry), 26. Skull: greatest length, 28.7; zygomatic breadth, 13.2; length of maxillary tooth row, 4.5.

*Oecomys auyantepui* Tate

=*Oryzomys auyantepui* (Tate). *Oecomys* is rated here as a subgenus.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 259 mm.; tail vertebrae, 133; hind foot, 23 (dry, 24.5). Skull: greatest length, 30.2; zygomatic breadth, 16.3; length of maxillary tooth row, 4.5.

*Oecomys melleus* Anthony
Amer. Mus. Novitates, no. 139, pp. 4–5, October 20, 1924.


Measurements: Skin: total length, 290 mm.; tail vertebrae, 150; hind foot (dry), 28. Skull: greatest length, 33.5; zygomatic breadth, 17.8; length of maxillary tooth row, 5.4.

Subgenus *MELANOMYS* Thomas

*Oryzomys chrysomelas* J. A. Allen


Measurements: Skin (dry): total length, 187 mm.; tail vertebrae, 86; hind foot, 25. Skull: greatest length, 27.3; zygomatic breadth, 14.3; length of maxillary tooth row, 4.5.

*Melanomys caliginosus oroensis* J. A. Allen


Measurements: Skin: total length, 220 mm.; tail vertebrae, 100; hind foot, 27. Skull: greatest length, 28.7; zygomatic breadth, 15.7; length of maxillary tooth row, 4.8.

Oryzomys (Melanomys) obscurior affinis J. A. Allen


Measurements: Skin: total length, 235 mm.; tail vertebrae, 90; hind foot, 30. Skull: greatest length, 30.5; zygomatic breadth, 15.8; length of maxillary tooth row, 4.4.

Melanomys affinis monticola J. A. Allen


Measurements: Skin: total length, 222 mm.; tail vertebrae, 99; hind foot, 26. Skull: greatest length, 30.2; zygomatic breadth, 15.5; length of maxillary tooth row, 4.5.

Melanomys phaeopus vallicola J. A. Allen


Measurements: Skin: total length, 193 mm.; tail vertebrae, 79; hind foot, 25. Skull: greatest length, 27.3; zygomatic breadth, 14.5; length of maxillary tooth row, 4.5.

Melanomys phaeopus tolimensis J. A. Allen


Measurements: Skin: total length, 202 mm.; tail vertebrae, 85; hind foot, 26.5. Skull: greatest length, 30; zygomatic breadth, 16; length of maxillary tooth row, 4.8.

Melanomys lomitensis J. A. Allen


Measurements: Skin: total length, 210 mm.; tail vertebrae, 90; hind foot, 22.5. Skull: greatest length, 25; zygomatic breadth, 13.9; length of maxillary tooth row, 4.5.

Melanomys buenavistae J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 32, art. 36, p. 547, pl. 68, fig. 8, November 17, 1913.


Measurements: Skin: total length, 223 mm.; tail vertebrae, 106; hind foot, 27. Skull: greatest length, 30+; zygomatic
breadth, 16.5; length of maxillary tooth row, 4.5.

**Akodon columbianus** J. A. Allen


Skin in good condition. Skull lacking all upper molars except first upper left.

**Measurements:** Skin: total length, 230 mm.; tail vertebrae, 102; hind foot, 27. Skull: greatest length, 30; zygomatic breadth, 15.7; length of maxillary tooth row, 4.8.

**Genus NEACOMYS** Thomas

**Neacomys pusillus** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 145 mm.; tail vertebrae, 70; hind foot, 20. Skull: greatest length, 21.3; zygomatic breadth, 11; length of maxillary tooth row, 2.5.

**Genus SCOLOMYS** Anthony

**Scolomys melanops** Anthony
Amer. Mus. Novitates, no. 139, pp. 2–3, October 20, 1924.


Skin in good condition. Skull complete, teeth worn.

**Measurements:** Skin: total length, 158 mm.; tail vertebrae, 68; hind foot, 20. Skull: greatest length, 21.9; zygomatic breadth, 12.8; length of maxillary tooth row, 2.6.

**Genus NECTOMYS** Peters

**Subgenus NECTOMYS** Peters

**Nectomys palmipes** J. A. Allen and Chapman


Skin in good condition with bones in distal half of tail. Skull complete except for left bulla.

**Measurements:** Skin: total length, 420 mm.; tail vertebrae, 210; hind foot, 48. Skull: greatest length, 44; zygomatic breadth, 23.5; length of maxillary tooth row, 7.0.

**Nectomys squamipes tatei** Hershkovitz


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 380 mm.; tail vertebrae, 200; hind foot (dry), 48. Skull: greatest length, 41; zygomatic breadth, 22.2; length of maxillary tooth row, 7.1.

**Subgenus SIGMODYNOMYS** Allen

**Sigmodontomys alfarl** J. A. Allen


Skin in fair condition. Skull with left side of braincase broken and lacking left zygomatic arch.

**Measurements:** Skin (dry), 278 mm.; tail vertebrae, 155; hind foot, 37. Skull: greatest length, 35.2; length of maxillary tooth row, 5.3.
Oryzomys ochraceus J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 300 mm.; tail vertebrae, 180; hind foot, 40. Skull: greatest length, 37; zygomatic breadth, 19.5; length of maxillary tooth row, 5.5.

Oryzomys barbacoas J. A. Allen


Skin in good condition. Skull complete except for last upper right molar.

Measurements: Skin: total length, 300 mm.; tail vertebrae, 168; hind foot, 35. Skull: greatest length, 36; zygomatic breadth, 20; length of maxillary tooth row, 5.5.

Genus RHIPIDOMYS Tschudi

Tylomys couesi J. A. Allen and Chapman


Skin in good condition. Skull complete.

Measurements: Skin: total length, 460 mm.; tail vertebrae, 252; hind foot, 35. Skull: greatest length, 44.3; zygomatic breadth, 22.4; length of maxillary tooth row, 6.

Rhipidomys cocalensis J. A. Allen


Skin in good condition. Skull complete, teeth worn, lower jaw lacking all but last molar on each side.

Measurements: Skin: total length, 360 mm.; tail vertebrae, 199; hind foot, 28. Skull: greatest length, 34.5; zygomatic breadth, 18.51; length of maxillary tooth row, 5.

Rhipidomys similis J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 340 mm.; tail vertebrae, 185; hind foot, 31. Skull: greatest length, 34; zygomatic breadth, 18.7; length of maxillary tooth row, 5.3.

Rhipidomys quindianus J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 208 mm.; tail vertebrae, 129; hind foot, 25.5. Skull: greatest length, 27.8; zygomatic breadth, 14.1; length of maxillary tooth row, 5.4.

Thomomys macconnelli subnubis Tate
= Rhipidomys macconnelli de Winton. According to the unpublished notes of W. H. Osgood.1

131154. Skin and skull. Semi-adult female. South slope of Mt. Auyan-tepui, Vene-

1 In his notes Osgood put T. m. subnubis Tate in synonymy with T. m. macconnelli and returned macconnelli to the genus in which it was originally described. His reason: in cranial and dental characters it is obviously nearer to typical Rhipidomys than Thomomys, nearer in fact than various other species in which the teeth are broadened.
Rhipidomys milleri. Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 278 mm.; tail vertebrae, 171; hind foot (s.u.), 26. Skull: greatest length, 30.5; zygomatic breadth, 16.5; length of maxillary tooth row, 4.6.

Rhipidomys venezuelae yuruanus J. A. Allen


Skin in good condition. Skull complete, teeth worn.

MEASUREMENTS: Skin: total length, 310 mm.; tail vertebrae, 163; hind foot, 26. Skull: greatest length, 34; zygomatic breadth, 18; length of maxillary tooth row, 4.5.

Rhipidomys ochrogaster J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 15 inches; tail vertebrae, 9 inches; hind foot, 1 3/8 inches. Skull: greatest length, 37.5 mm.; zygomatic breadth, 19.7; length of maxillary tooth row, 6.3.

Oecomys emiliae J. A. Allen

= Rhipidomys emiliae (Allen). This species clearly belongs in the genus Rhipidomys as indicated by the hairy tail, tufted terminally, and the dark dorsum of the foot.


Skin in fair condition, tail vertebrae not removed. No skull.

MEASUREMENTS: Skin: total length, 300 mm.; tail vertebrae, 165; hind foot, 28.

Rhipidomys milleri J. A. Allen


Skin in fair condition. Skull complete except for last upper molar.

MEASUREMENTS: Skin: total length, 295 mm.; tail vertebrae, 155; hind foot, 25. Skull: greatest length, 30; zygomatic breadth, 16.1; length of maxillary tooth row, 4.3.

Rhipidomys mollissimus J. A. Allen


Skin in fair condition. Skull complete.

MEASUREMENTS: Skin: total length, 279 mm.; tail vertebrae, 156; hind foot, 27. Skull: greatest length, 32; zygomatic breadth, 16; length of maxillary tooth row, 5.

Rhipidomys caucensis J. A. Allen


Skin in fair condition. Skull complete.

MEASUREMENTS: Skin: total length, 236 mm.; tail vertebrae, 133; hind foot (dry), 22. Skull: greatest length, 27; zygomatic breadth, 15; length of maxillary tooth row, 4.

Oryzomys tenuicuada J. A. Allen


Skin in fair condition, lacking tip of tail. Skull complete.
Measurements: Skin: total length, 212 mm.; tail vertebrae, 128; hind foot, 23. Skull: greatest length, 26.5; zygomatic breadth, 14.6; length of maxillary tooth row, 4.3.

**Genus THOMASOMYS**

**Aureus** Group

**Thomasomys aureus altorum** J. A. Allen


Skull in good condition. Skull with brain-case slightly crushed, lacking lower incisors.

Measurements: Skin: total length, 360 mm.; tail vertebrae, 200; hind foot, 34. Skull: greatest length, 40.5; zygomatic breadth, 20.4; length of upper tooth row, 7.4.

**Thomasomys popayanus** J. A. Allen


Skull in good condition. Skull complete.

Measurements: Skin: total length, 374 mm.; tail vertebrae, 218; hind foot, 38. Skull: greatest length, 38.5; zygomatic breadth, 20.2; length of maxillary tooth row, 7.

**Pyrrhonotus** Group

**Thomasomys auricularis** Anthony

Amer. Mus. Novitates, no. 55, p. 6, fig. 2b, January 31, 1923.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 345 mm.; tail vertebrae, 190; hind foot, 32. Skull: greatest length, 37.1; zygomatic breadth, 19.7; length of maxillary tooth row, 6.6.

**Cinereus** Group

**Thomasomys cinereivent er** J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 320 mm.; tail vertebrae, 159; hind foot, 36. Skull: greatest length, 36.3; zygomatic breadth, 18.6; length of maxillary toothrow, 6.

**Thomasomys cinereivent er dispar** Anthony

Amer. Mus. Novitates, no. 178, pp. 2–3, June 22, 1925.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 280 mm.; tail vertebrae, 182; hind foot, 31. Skull: greatest length, 32.5; zygomatic breadth, 15.5; length of maxillary tooth row, 5.3.

**Thomasomys cinereivent er contradictus** Anthony


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 267 mm.; tail vertebrae, 148; hind foot, 31. Skull: greatest length, 30.3; zygomatic breadth, 15.9; length of maxillary tooth row, 5.

**Thomasomys bombycinus** Anthony

Amer. Mus. Novitates, no. 178, pp. 1–2, June 22, 1925.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 236 mm.; tail vertebrae, 125; hind foot, 27.
greatest length, 28.6; zygomatic breadth, 15.3; length of maxillary tooth row, 5.

**Thomasomys orea** Anthony
Amer. Mus. Novitates, no. 239, pp. 2–3, December 4, 1926.


Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 244 mm.; tail vertebrae, 136; hind foot, 25. Skull: greatest length, 29; zygomatic breadth, 15.8; length of maxillary tooth row, 4.3.

**Thomasomys erro** Anthony
Amer. Mus. Novitates, no. 240, pp. 5–6, December 4, 1926.


Skin in good condition. Skull with brain-case crushed but repaired.

**Measurements**: Skin: total length, 330 mm.; tail vertebrae, 178; hind foot, 30. Skull: greatest length, 32; zygomatic breadth, 15.2; length of maxillary tooth row, 5.1.

**Thomasomys ladewi** Anthony
Amer. Mus. Novitates, no. 239, pp. 1–2, December 4, 1926.


Skin in good condition. Skull complete, teeth worn.

**Measurements**: Skin: total length, 294 mm.; tail vertebrae, 158; hind foot, 33. Skull: greatest length, 33.3; zygomatic breadth, 18.7; length of maxillary tooth row, 6.3.

**Thomasomys caudivarius** Anthony


Original number 1927.

Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 275 mm.; tail vertebrae, 161; hind foot, 30. Skull: greatest length, 31.9; zygomatic breadth, 16.9; length of maxillary tooth row, 5.1.

**Thomasomys silvestris** Anthony


Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 261 mm.; tail vertebrae, 151; hind foot, 30. Skull: greatest length, 29.3; zygomatic breadth, 15.5; length of maxillary tooth row, 5.

**Rhoadsi** Group

**Thomasomys rhoadsi fumeus** Anthony
Amer. Mus. Novitates, no. 139, pp. 6–7, October 20, 1924.


Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 220 mm.; tail vertebrae, 105; hind foot, 27. Skull: greatest length, 30.7; zygomatic breadth, 15.2; length of maxillary tooth row, 4.6.

**Leguens** Group

**Aepeomys fuscatus** J. A. Allen


Skin in fair condition. Skull lacking right side of mandible, otherwise complete.

**Measurements**: Skin: total length, 220 mm.; tail vertebrae, 110; hind foot, 25. Skull: greatest length, 26.5; zygomatic breadth, 15; length of maxillary tooth row, 4.2.
Thomasomys ottleyi Anthony
Amer. Mus. Novitates, no. 548, pp. 1–2, July 8, 1932.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 232 mm.; tail vertebrae, 121; hind foot, 30. Skull: greatest length, 30; zygomatic breadth, 14.2; length of maxillary tooth row, 4.5.

Gracilis Group

Thomasomys cinnameus Anthony
Amer. Mus. Novitates, no. 139, pp. 5–6, October 20, 1924.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 210 mm.; tail vertebrae, 120; hind foot, 24. Skull: greatest length 26.4; zygomatic breadth, 13.5; length of maxillary tooth row, 4.

Thomasomys hudsoni Anthony
Amer. Mus. Novitates, no. 55, pp. 3–4, fig. 1, a, b, January 31, 1923.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 213 mm.; tail vertebrae, 120; hind foot, 23. Skull: greatest length, 25.2; zygomatic breadth, 13.3; length of maxillary tooth row, 3.5.

Thomasomys daphne australis Anthony
Amer. Mus. Novitates, no. 178, p. 4, June 22, 1925.


Skull in good condition. Skull complete.

Measurements: Skin: total length, 227 mm.; tail vertebrae, 138; hind foot, 25. Skull: greatest length, 27.3; zygomatic breadth, 14; length of maxillary tooth row, 4.

Genus Tylomys Peters

Tylomys fulviventer Anthony


Skin in good condition. Skull complete.

Measurements: Skin: total length, 451 mm.; tail vertebrae, 233; hind foot, 38. Skull: greatest length, 51; zygomatic breadth, 25; length of maxillary tooth row, 8.

Genus Ototylomys Merriam

Ototylomys fumeus J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 330 mm.; tail vertebrae, 140; hind foot, 30. Skull: greatest length, 41.5; zygomatic breadth, 21; length of maxillary tooth row, 7.

Genus Otonyctomys Anthony

Otonyctomys hatti Anthony
Amer. Mus. Novitates, no. 586, pp. 1–3, fig. 1a, November 16, 1932.


Skin in good condition but lacking the tail. Skull complete except for last upper right molar.

Measurements: Skin: head and body, 116 mm.; tail vertebrae (paratype), 127; hind foot, 21. Skull: greatest length, 29.5; zygomatic breadth, 15.7; length of maxillary tooth row, 4.2.
Genus **Reithrodontomys** GIGLIOLI

Subgenus **Reithrodontomys** GIGLIOLI

**Megalotis** Group

**Reithrodontomys aztecus** J. A. Allen


**MEASUREMENTS:** Skin: total length, 5 1/4 inches; tail vertebrae, 2 1/2 inches; hind foot, 3 1/4 inch. Skull: greatest length, 21 mm.; zygomatic breadth, 11.2; length of maxillary tooth row, 3.

**Reithrodontomys dychei** J. A. Allen


**MEASUREMENTS:** Skin: total length, 133 mm.; tail vertebrae, 52; hind foot, 15.5. Skull: greatest length, 20.8; zygomatic breadth, 10.5; length of maxillary tooth row, 3.5.

**Reithrodontomys saturatus** J. A. Allen and Chapman


Skin in good condition. Skull lacking nasals and left zygomatic arch.

**MEASUREMENTS:** Skin: total length, 148 mm.; tail vertebrae, 74; hind foot, 18. Skull: greatest length, 21; zygomatic breadth, 10.7; length of maxillary tooth row, 3.4.

**Reithrodontomys arizonensis** J. A. Allen


**MEASUREMENTS:** Skin: total length, 152 mm.; tail vertebrae, 78; hind foot, 18. Skull: greatest length, 21; zygomatic breadth, 10.5; length of maxillary tooth row, 2.9.

**Reithrodontomys megalotis sestinensis** J. A. Allen


**MEASUREMENTS:** Skin: total length, 139 mm.; tail vertebrae, 70; hind foot, 18. Skull: greatest length, 20; zygomatic breadth, 10.5; length of maxillary tooth row, 3.5.

**Reithrodontomys pallidus** Rhoads


**MEASUREMENTS:** Skin: total length, 137 mm.; tail vertebrae, 73; hind foot, 17. Skull: greatest length, 19.2; zygomatic breadth, 10.2; length of maxillary tooth row, 2.8.
Reithrodontomys mexicanus fulvescens J. A. Allen


MEASUREMENTS: Skin: total length, 169 mm.; tail vertebrae, 95; hind foot, 19. Skull: greatest length, 20.7; zygomatic breadth, 10.5; length of maxillary tooth row, 3.5.

Reithrodontomys mexicanus intermedius J. A. Allen


Skin in fair condition. Skull lacking occipital region.

MEASUREMENTS: Skin: total length, 194 mm.; tail vertebrae, 108; hind foot, 21. Skull: zygomatic breadth, 10.5; length of maxillary tooth row, 3.

Reithrodontomys laceyi J. A. Allen


Skin in good condition. Skull crushed but repaired.

MEASUREMENTS: Skin: total length, 156 mm.; tail vertebrae, 89; hind foot, 19. Skull: greatest length, 21; zygomatic breadth, 10; length of maxillary tooth row, 3.

Reithrodontomys rufescens J. A. Allen and Chapman


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 177 mm.; tail vertebrae, 99; hind foot, 20. Skull: greatest length, 22.7; zygomatic breadth, 11.2; length of maxillary tooth row, 3.4.

Reithrodontomys australis J. A. Allen


Skin in fair condition. Skull with left zygomatic arch broken and a hole in right parietal.

MEASUREMENTS: Skin: total length, 158 mm.; tail vertebrae, 80; hind foot, 18. Skull: greatest length, 22; zygomatic breadth, 11.2; length of maxillary tooth row, 3.3.

Reithrodontomys dorsalis underwoodi Goodwin


Skin in fair condition. Skull complete except zygomatic arches broken.

MEASUREMENTS: Skin: total length, 163 mm.; tail vertebrae, 90; hind foot, 19. Skull: greatest length, 23; zygomatic breadth, 11.5; length of maxillary tooth row, 3.1.
Subgenus Aporodon Howell

Reithrodontomys mexicanus howelli Goodwin


Skin in good condition. Skull complete.

Measurements: Skin: total length, 178 mm.; tail vertebrae, 104; hind foot, 18. Skull: greatest length, 22.3; zygomatic breadth, 12; length of maxillary tooth row, 3.4.

Hesperomys (Vesperimus) cherrii J. A. Allen


Original number 384.

Skin in fair condition. No skull.

Measurements: Skin: total length, 207 mm.; tail vertebrae, 112.5; hind foot, 19.

Original type number 3647/2801, preserved in alcohol, skull removed and mismatched.


Reithrodontomys costaricensis J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 197 mm.; tail vertebrae, 111; hind foot, 20.5. Skull: greatest length, 24.2; zygomatic breadth, 12.5; length of maxillary tooth row, 3.5.

Reithrodontomys mexicanus ocotepequensis Goodwin


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 181 mm.; tail vertebrae, 101; hind foot, 15. Skull: greatest length, 23.8; zygomatic breadth, 11; length of maxillary tooth row, 3.5.

Reithrodontomys mexicanus potrerograndeii Goodwin


Skin in good condition. Skull complete.

Measurements: Skin: total length, 175 mm.; tail vertebrae, 111; hind foot, 18. Skull: greatest length, 22.5; zygomatic breadth, 10.8; length of maxillary tooth row, 3.

Reithrodontomys milleri J. A. Allen


Skin in good condition. Skull complete except zygomatic arches broken.

Measurements: Skin: total length, 185 mm.; tail vertebrae, 107; hind foot, 19. Skull: greatest length, 23; zygomatic breadth, 11.2; length of maxillary tooth row, 3.1.

Reithrodontomys brevirostris Goodwin

139727. Skin and skull. Adult female. Laja

Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 180 mm.; tail vertebrae, 140; hind foot, 17. Skull: greatest length, 21.1; zygomatic breadth, 11.3; length of maxillary tooth row, 2.8.

Reithrodontomys mexicanus gracilis J. A. Allen and Chapman


Skin in good condition. Skull lacking occipital region.

MEASUREMENTS: Skin: total length, 165 mm.; tail vertebrae, 98; hind foot, 16. Skull: greatest length, 19.5; zygomatic breadth, 10.5; length of maxillary tooth row, 2.8.

Reithrodontomys pacificus Goodwin


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 180 mm.; tail vertebrae, 92; hind foot, 18. Skull: greatest length, 21.2; zygomatic breadth, 11.2; length of maxillary tooth row, 2.9.

Reithrodontomys gracilis anthonyi Goodwin


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 189 mm.; tail vertebrae, 112; hind foot, 20. Skull: greatest length, 22; zygomatic breadth, 11.5; length of maxillary tooth row, 3.3.

Tenuirostris Group

Reithrodontomys rodriquezi Goodwin
Amer. Mus. Novitates, no. 1231, pp. 1–2, June 2, 1943.


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 190 mm.; tail vertebrae, 107; hind foot, 20. Skull: greatest length, 23.6; zygomatic breadth, 11.8; length of maxillary tooth row, 3.6.

Genus PEROMYSCUS GLOGER
Subgenus HAPLOMYLOMYS OSGOOD

Sitomys auripectus J. A. Allen


Skin in fair condition. Skull complete except zygomatic arches broken.

MEASUREMENTS: Skin: total length, 172 mm.; tail vertebrae, 93; hind foot, 22. Skull: greatest length, 25; zygomatic breadth, 12.5; length of maxillary tooth row, 3.5.

Peromyscus cedrosensis J. A. Allen


Skin in fair condition. Skull lacking braincase, last two upper right molars, and last lower right molar.

MEASUREMENTS: Skin: total length, 194
mm.; tail vertebrae, 107; hind foot, 20. Skull: length of maxillary tooth row, 3.7.

Peromyscus eremicus propinquus J. A. Allen

MEASUREMENTS: Skin: total length, 190 mm.; tail vertebrae, 100; hind foot, 18.5. Skull: greatest length, 23.4; zygomatic breadth, 11.5; length of maxillary tooth row, 3.7.

Subgenus Peromyscus Gloyer
Maniculatus Group

Peromyscus texanus subarcticus J. A. Allen

MEASUREMENTS: Skin: total length, 165 mm.; tail vertebrae, 66; hind foot, 19. Skull: greatest length, 24.5; zygomatic breadth, 12.5; length of maxillary tooth row, 3.5.

Hesperomys leucopus nebrascensis Mearns

Peromyscus maniculatus osgoodi Mearns

MEASUREMENTS: Skin: total length, 127 mm.; tail vertebrae, 52; hind foot, 16. Skull: greatest length, 22; zygomatic breadth, 11.5; length of maxillary tooth row, 3.

Peromyscus mичiganensis pallescens J. A. Allen

MEASUREMENTS: Skin: total length, 127 mm.; tail vertebrae, 52; hind foot, 16. Skull: greatest length, 22; zygomatic breadth, 11.5; length of maxillary tooth row, 3.

Peromyscus dubius J. A. Allen

MEASUREMENTS: Skin: total length, 175 mm.; tail vertebrae, 82; hind foot, 18. Skull: greatest length, 26.3; zygomatic breadth, 13.5; length of maxillary tooth row, 3.8.
Peromyscus geronimensis  J. A. Allen  
\(= \text{Peromyscus maniculatus geronimensis} \) Allen.  

13610/11959 (13616/11960). Skin and skull.  
Adult male. San Geronimo Island, Lower California, Mexico.  
Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 175 mm.; tail vertebrae, 83; hind foot, 20. Skull: greatest length, 25.8; zygomatic breadth, 13.2; length of maxillary tooth row, 3.8.

Peromyscus exiguis  J. A. Allen  
\(= \text{Peromyscus maniculatus exiguis} \) Allen.  

Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 154 mm.; tail vertebrae, 62; hind foot, 20. Skull: greatest length, 26.7; zygomatic breadth, 13.5; length of maxillary tooth row, 3.8.

Peromyscus cineritus  J. A. Allen  
\(= \text{Peromyscus maniculatus cineritus} \) Allen.  
According to Osgood, North Amer. Fauna, no. 28, p. 100, April 17, 1909.  

13589/11938. Skin and skull. Adult male. San Roque Island, Lower California, Mexico.  
Skin in fair condition. Skull lacking all molars except first right and first and second left maxillary teeth.  
**Measurements:** Skin: total length, 191 mm.; tail vertebrae, 83; hind foot, 21.8. Skull: greatest length, 26.5; zygomatic breadth, 14; length of maxillary tooth row, 4.

Sitomys niveiventris subgriseus  Chapman  
\(= \text{Peromyscus polionotus polionotus} \) (Wagner).  

Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 122 mm.; tail vertebrae, 45; hind foot, 16.5. Skull: greatest length, 21.7; zygomatic breadth, 11.5; length of maxillary tooth row, 3.

Hesperomys niveiventris  Chapman  
\(= \text{Peromyscus polionotus niveiventris} \) (Chapman).  
According to Osgood, North Amer. Fauna, no. 28, p. 105, April 17, 1909.  

Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 156 mm.; tail vertebrae, 61; hind foot, 18. Skull: greatest length, 23.9; zygomatic breadth, 12.4; length of maxillary tooth row, 3.3.

Peromyscus polionotus peninsularis  A. H. Howell  

Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 130 mm.; tail vertebrae, 52; hind foot, 18. Skull: greatest length, 22.8; zygomatic breadth, 12.3; length of maxillary tooth row, 3.4.

Peromyscus melanotis  J. A. Allen and Chapman  

12512/10822. Skin and skull. Adult male. Las Vagas, Veracruz, Mexico. Altitude, 8000 feet.  
Skin in good condition. Skull complete.  
**Measurements:** Skin: total length, 160 mm.; tail vertebrae, 66; hind foot, 20.5. Skull: greatest length, 27; zygomatic breadth, 13.5; length of maxillary tooth row, 3.8.
Leucopus Group

Peromyscus texanus flaccidus J. A. Allen


Measurements: Skin: total length, 177 mm.; tail vertebrae, 79; hind foot, 20. Skull: greatest length, 25.3; zygomatic breadth, 13.2; length of maxillary tooth row, 3.8.

Sitomys americanus arizonea J. A. Allen


Measurements: Skin: total length, 158 mm.; tail vertebrae, 67; hind foot, 24. Skull: greatest length, 26.8; zygomatic breadth, 13.3; length of maxillary tooth row, 3.8.

Vesperimus mearnsi J. A. Allen


Measurements: Skin: total length, 7 1/4 inches; tail vertebrae, 3 1/2 inches; hind foot, 20 mm. Skull: zygomatic breadth, 13.6; length of maxillary tooth row, 3.2.

Boylíi Group

Sitomys rowleyi J. A. Allen


Measurements: Skin (dry): total length, 192 mm.; tail vertebrae, 98; hind foot, 21. Skull: greatest length, 27; zygomatic breadth, 13.1; length of maxillary tooth row, 4.

Peromyscus attwateri J. A. Allen


Measurements: Skin: total length, 216 mm.; tail vertebrae, 110; hind foot, 23. Skull: greatest length, 28.5; zygomatic breadth, 14.2; length of maxillary tooth row, 3.9.

Peromyscus spicilegus J. A. Allen


Measurements: Skin: total length, 201 mm.; tail vertebrae, 106; hind foot, 23. Skull: greatest length, 27.5; zygomatic breadth, 13.2; length of maxillary tooth row, 4.

Sitomys rowleyi pinalis Miller


Measurements: Skin (dry): total length, 192 mm.; tail vertebrae, 98; hind foot, 21. Skull: greatest length, 27; zygomatic breadth, 13.1; length of maxillary tooth row, 4.

Skin in fair condition. Skull complete.

**Measurements:**
- **Skin:** total length, 188 mm.; tail vertebrae, 92; hind foot, 21. Skull: greatest length, 27.8; zygomatic breadth, 14; length of maxillary tooth row, 4.4.

**Truei Group**

**Sitomys martirensis** J. A. Allen


**Measurements:**
- **Skin:** total length, 196 mm.; tail vertebrae, 104; hind foot, 22. Skull: greatest length, 28; zygomatic breadth, 13.2; length of maxillary tooth row, 4.

**Vesperimus nasutus** J. A. Allen


**Measurements:**
- **Skin:** total length, 190 mm.; tail vertebrae, 104.7; hind foot, 22.4. Skull: length of maxillary tooth row, 4.

**Vesperimus difficilis** J. A. Allen


**Measurements:**
- **Skin:** total length, 201 mm.; tail vertebrae, 103; hind foot, 25.4. Skull: greatest length, 29; zygomatic breadth, 14.7; length of maxillary tooth row, 4.5.

**Lepturus Group**

**Peromyscus hondurensis** Goodwin


**Measurements:**
- **Skin:** total length, 213 mm.; tail vertebrae, 102; hind foot, 24. Skull: greatest length, 29.4; zygomatic breadth, 14.7; length of maxillary tooth row, 4.8.

**Peromyscus guatemalensis tropicalis** Goodwin


**Measurements:**
- **Skin:** total length, 265 mm.; tail vertebrae, 131; hind foot, 31. Skull: greatest length, 34.5; zygomatic breadth, 15.9; length of maxillary tooth row, 4.9.

**Hesperomys (Vesperimus?) nudipes** J. A. Allen


**Measurements:** Skin: total length, 230 mm.; tail vertebrae, 139; hind foot, 28.5; Skull: greatest length, 34.7; zygomatic breadth, 15.7; length of maxillary tooth row, 5.3.
Peromyscus nudipes orientalis Goodwin

Skin in fair condition. Skull complete.
MEASUREMENTS: Skin: total length, 240 mm.; tail vertebrae, 124; hind foot, 27. Skull: greatest length, 33; zygomatic breadth, 15.7; length of maxillary tooth row, 4.8.

Peromyscus furvus J. A. Allen and Chapman

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 270 mm.; tail vertebrae, 131; hind foot, 28. Skull: greatest length, 35; zygomatic breadth, 16.7; length of maxillary tooth row, 5.3.

Mexicanus Group

Peromyscus nicaraguae J. A. Allen


Skin in fair condition. Skull complete.
MEASUREMENTS: Skin: total length, 240 mm.; tail vertebrae, 110; hind foot, 30. Skull: greatest length, 33.4; zygomatic breadth, 15.5; length of maxillary tooth row, 4.7.

Peromyscus banderanus J. A. Allen

Skin in poor condition. Skull complete except for second left upper molar.

MEASUREMENTS: Skin: total length, 226 mm.; tail vertebrae, 112; hind foot, 24. Skull: greatest length, 30.5; zygomatic breadth, 14.8; length of maxillary tooth row, 4.2.

Peromyscus yucatanicus J. A. Allen and Chapman

Skin in fair condition. Skull complete except zygomatic arches broken.
MEASUREMENTS: Skin: total length, 200 mm.; tail vertebrae, 100; hind foot, 22. Skull: greatest length, 30.5; zygomatic breadth, 14.5; length of maxillary tooth row, 3.8.

Subgenus MEGADONTOMYS Merriam

Peromyscus grandis Goodwin

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 315 mm.; tail vertebrae, 150; hind foot, 32. Skull: greatest length, 39; zygomatic breadth, 17.5; length of maxillary tooth row, 5.

Subgenus PODOMYS Osgood

Hesperomys floridanus Chapman


Skin in poor condition and lacking distal half of tail.
MEASUREMENTS: Skin (dry): head and body, 118 mm.; hind foot, 23.8.

Genus BAIOMYS True

Peromyscus paulus J. A. Allen

= Baiomys taylori paulus (Allen). According to


Skin in fair condition. Skull complete except left zygomatic arch broken.

Measurements: Skin: total length, 106 mm.; tail vertebrae, 44; hind foot (s.u.), 13. Skull: greatest length, 17.8; zygomatic breadth, 9.3; length of maxillary tooth row, 3.

**Peromyscus musculus brunneus** J. A. Allen and Chapman


Skin in good condition. Skull complete.

Measurements: Skin: total length, 120 mm.; tail vertebrae, 50; hind foot, 15. Skull: greatest length, 19.5; zygomatic breadth, 10.4; length of maxillary tooth row, 3.

**Genus Onychomys** Baird

**Onychomys leucogaster fuscogriseus** Anthony


Skin in good condition. Skull complete.

Measurements: Skin: total length, 140 mm.; tail vertebrae, 34; hind foot, 20. Skull: greatest length, 26; zygomatic breadth, 13.3; length of maxillary tooth row, 4.

**Genus Akodon** Meyen

**Subgenus Akodon** Meyen

**Boliviensis** Group


Skin in good condition. Skull fragmentary, lacking all teeth except lower incisors and lower left molars.

Measurements: Skin: total length, 140 mm.; tail vertebrae, 64; hind foot, 19. Skull, subadult paratype (16508): greatest length, 21.3; zygomatic breadth, 10.7; length of maxillary tooth row, 3.5.

**Subgenus Chalcomys** Thomas

**Urichi** Group

**Akodon chapmani** J. A. Allen


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 171 mm.; tail vertebrae, 68; hind foot, 23. Skull: greatest length, 26; zygomatic breadth, 13.7; length of maxillary tooth row, 4.4.

**Oecomys phelpsi** Tate


Skull in good condition. The skin with this skull was mismatched and proves to be Oryzomys guianae (Thomas).

Measurements: Skull: greatest length, 27 mm.; zygomatic breadth, 13.8; length of maxillary tooth row, 4.6.

**Chalcomys aerosus saturatus** Tate


=[Akodon aerosus saturatus (Tate). Chalcomys is rated here in subgeneric rank.

Skull in good condition. Skull complete.

**Measurements**: Skin: total length, 203 mm.; tail vertebrae, 93; hind foot (s.u.), 22.

Skull: greatest length, 20.3; zygomatic breadth, 14.2; length of maxillary tooth row, 4.8.

**Microxus affinis** J. A. Allen


Skin in fair condition. Skull damaged in basi-occipital region and left zygomatic arch.

**Measurements**: Skin: total length, 160 mm.; tail vertebrae, 70; hind foot, 20. Skull: greatest length, 25.5; zygomatic breadth, 13.5; length of maxillary tooth row, 4.1.

**Akodon meridensis** J. A. Allen


Skin in good condition. Skull complete except upper incisors broken.

**Measurements**: Skin: total length, 180 mm.; tail vertebrae, 80; hind foot, 25.6. Skull: greatest length, 26; zygomatic breadth, 13.5; length of maxillary tooth row, 4.4.

**Akodon tolmae** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**: Skin: total length, 165 mm.; tail vertebrae, 76; hind foot, 20.5. Skull: greatest length, 25.5; zygomatic breadth, 13.2; length of maxillary tooth row, 4.2.

**Akodon urichi** J. A. Allen and Chapman


Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 200 mm.; tail vertebrae, 68; hind foot, 24. Skull: greatest length, 30; zygomatic breadth, 15; length of maxillary tooth row, 5.

**Akodon venezuelensis** J. A. Allen


Skin in good condition but tail incomplete. Skull lacking last upper molars on both sides.

**Measurements**: Skin: total length, 161 mm.; tail vertebrae, 60; hind foot, 24. Skull: greatest length, 29.5; zygomatic breadth, 14.6; length of maxillary tooth row, 5.

**Zygodontomys tapirapoanus** J. A. Allen


Skin in good condition. Skull complete.

**Measurements**: Skin: total length, 210 mm.; tail vertebrae, 80; hind foot, 25. Skull: greatest length, 29.5; zygomatic breadth, 15.5; length of maxillary tooth row, 5.

**Genus ZYGODONTOMYS** Allen

**Oryzomys cherriei** J. A. Allen


Skin in fair condition. Skull complete except for last upper left molar.

**Zygodontomys griseus** J. A. Allen


Skin in fair condition, lacking right front leg. Skull complete except right zygomatic arch broken.

**Zygodontomys fraterculus** J. A. Allen


Skin in fair condition. Skull complete.

**Oryzomys sanctaemartae** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 229 mm.; tail vertebrae, 100; hind foot, 27. Skull: greatest length, 30; zygomatic breadth, 15; length of maxillary tooth row, 4.2.

**Zygodontomys brevicauda** J. A. Allen and Chapman


Skin in good condition. Skull complete except for last upper molar on right and left sides.

**Measurements:** Skin: total length, 258 mm.; tail vertebrae, 104; hind foot, 28. Skull: greatest length, 32.3; zygomatic breadth, 16.3; length of maxillary tooth row, 5.

**Akodon frustrator** J. A. Allen and Chapman


**Genus MICROXUS** Thomas

**Microxus latebricola** Anthony

Amer. Mus. Novitates, no. 139, pp. 3–4, October 12, 1904.


Skin in good condition. Skull broken in occipital region and lacking right zygomatic arch.

**Microxus latebricola** Anthony

Amer. Mus. Novitates, no. 139, pp. 3–4, October 20, 1924.
MEASUREMENTS: Skin: total length, 163 mm.; tail vertebrae, 80; hind foot, 22. Skull: greatest length, 24.5; zygomatic breadth, 12; length of maxillary tooth row, 3.5.

**Genus Podomyrmys** Anthony

*Podomyrmys roraimae* Anthony


Skin in good condition. Skull complete except zygomatic arches broken.

MEASUREMENTS: Skin: total length, 196 mm.; tail vertebrae, 95; hind foot, 23. Skull: greatest length, 27.5; zygomatic breadth, 12.3; length of maxillary tooth row, 4.4.

**Genus Lenoxus** Thomas

*Oxymycterus apicalis* J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 306 mm.; tail vertebrae, 158; hind foot, 36. Skull: greatest length, 38; zygomatic breadth, 17.5; length of maxillary tooth row, 6.

*Lenoxus apicalis boliviae* Sanborn


Skin in good condition. Skull complete except for last upper molar on right and left sides.

MEASUREMENTS: Skin: total length, 309 mm.; tail vertebrae, 157; hind foot, 34. Skull: greatest length, 36.6; zygomatic breadth, 17.1; length of maxillary tooth row, 5.5.

**Genus Oxymycterus** Waterhouse

*Oxymycterus juliae* J. A. Allen


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 250 mm.; tail vertebrae, 112; hind foot, 32. Skull: greatest length, 36.4; zygomatic breadth, 16.5; length of maxillary tooth row, 5.8.

**Genus Scotinomys** Thomas

*Scotinomys teguina cacabatus* Goodwin


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 145 mm.; tail vertebrae, 60; hind foot, 19. Skull: greatest length, 23.75; zygomatic breadth, 11.6; length of maxillary tooth row, 3.8.

*Scotinomys teguina escazuenensis* Goodwin


Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 129 mm.; tail vertebrae, 46; hind foot, 17. Skull: greatest length, 21.6; zygomatic breadth, 11.3; length of maxillary tooth row, 3.75.

*Akodon irazu* J. A. Allen


**Measurements:** Skin: total length, 125 mm.; tail vertebrae, 50; hind foot, 17. Skull: greatest length, 22; zygomatic breadth, 11.5; length of maxillary tooth row, 4.

**Scotinomys teguina endersi** Goodwin


**Measurements:** Skin: total length, 138 mm.; tail vertebrae, 58; hind foot, 17.5. Skull: greatest length, 22.4; zygomatic breadth, 11.4; length of maxillary tooth row, 3.7.

**Scotinomys longipilosus** Goodwin


**Measurements:** Skin: total length, 151 mm.; tail vertebrae, 70; hind foot, 18.5. Skull: greatest length, 22.3; zygomatic breadth, 11.2; length of maxillary tooth row, 4.

**Genus Hesperomyms** Waterhouse

**Hesperomyms lepidus montanus** Sanborn


**Measurements:** Skin: total length, 127 mm.; tail vertebrae, 42; hind foot, 18. Skull: greatest length, 20.8; zygomatic breadth, 11.4; length of maxillary tooth row, 3.7.

**Genus Eligmodontia** Cuvier

**Eligmodontia morgani** J. A. Allen


**Measurements:** Skin: total length, 165 mm.; tail vertebrae, 80; hind foot, 23. Skull: greatest length, 24; zygomatic breadth, 12; length of maxillary tooth row, 3.5.

**Genus Phyllotis** Waterhouse

**Phyllotis osilae** J. A. Allen


= *Phyllotis darwini osilae* Allen. According to unpublished note of Dr. Wilfred Osgood.


**Measurements:** Skin: total length, 232 mm.; tail vertebrae, 133; hind foot, 25. Skull: greatest length, 29.5; zygomatic breadth, 15; length of maxillary tooth row, 4.5.

**Phyllotis fruticicolus** Anthony

Amer. Mus. Novitates, no. 32, pp. 1–2, March 4, 1922.

= *Phyllotis andium* Thomas. According to unpublished notes of Dr. Wilfred Osgood.


**Measurements:** Skin: total length, 193
mm.; tail vertebrae, 102; hind foot, 24. Skull: greatest length, 24.7; zygomatic breadth, 12.4; length of maxillary tooth row, 4.2.

**Phyllotis (Auliscomys) decoloratus** Osgood


**Measurements**: Skin: total length, 178 mm.; tail vertebrae, 83; hind foot, 23. Skull: greatest length, 26.6; zygomatic breadth, 15.4; length of maxillary tooth row, 5.1.

**Phyllotis fuscus** Anthony
A mer. Mus. Novitates, no. 114, pp. 1–2, May 29, 1924.


**Measurements**: Skin: total length, 198 mm.; tail vertebrae, 85; hind foot, 27. Skull: greatest length, 29.5; zygomatic breadth, 15; length of maxillary tooth row, 4.2.

**Genus HOLOCILUS** Brandt

**Holochilus venezuelae** J. A. Allen


**Measurements**: Skin: total length, 275 mm.; tail vertebrae, 142; hind foot (dampened), 36.5. Skull: greatest length, 32.5; zygomatic breadth, 28.5; length of maxillary tooth row, 7.1.

The cotype, an old male, number 16964, is a *Nectomys*.

1 Possibly related to *P. definitus* Osgood.

**Genus SIGMODON** Say and Ord

**Hispidus** Group

**Sigmodon hispidus littoralis** Chapman


**Measurements**: Skin: total length, 275 mm.; tail vertebrae, 106; hind foot, 31. Skull: greatest length, 36; zygomatic breadth, 29.9; length of maxillary tooth row, 6.3.

**Sigmodon hispidus arizonae** Mearns


**Measurements**: Skin: total length, 320 mm.; tail vertebrae, 116; hind foot, 36. Skull: greatest length, 40.2; zygomatic breadth, 22.3; length of maxillary tooth row, 6.7.

**Sigmodon mascotensis** J. A. Allen


**Measurements**: Skin: total length, 272 mm.; tail vertebrae, 117; hind foot, 32. Skull: greatest length, 34.5; zygomatic breadth, 19.5; length of maxillary tooth row, 6.2.

**Sigmodon colimae** J. A. Allen


Skin in fair condition. Skull lacking right zygomatic arch.

**Measurements:** Skull: total length, 235 mm.; tail vertebrae, 105; hind foot, 32.

**Skull:** greatest length, 35.8; zygomatic breadth, 20; length of maxillary tooth row, 6.5.

**Sigmodon hispidus griseus** J. A. Allen


Skin in fair condition, lacking distal half of tail. Skull complete.

**Measurements:** Skin: head and body, 180 mm.; hind foot, 30. Skull: greatest length, 36.5; zygomatic breadth, 21.5; length of maxillary tooth row, 6.5.

**Sigmodon baileyi** J. A. Allen


Skin in good condition. Skull complete except for tip of nasals.

**Measurements:** Skin: total length, 198 mm.; tail vertebrae, 90; hind foot, 28.5.

Skull: greatest length, 31; zygomatic breadth, 18; length of maxillary tooth row, 6.

**Sigmodon borucae** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 275 mm.; tail vertebrae, 115; hind foot, 30. Skull: greatest length, 34.3; zygomatic breadth, 18; length of maxillary tooth row, 5.9.

**Sigmodon borucae chiriquensis** J. A. Allen


Skin in fair condition, lacking distal half of tail. Skull complete.

**Measurements:** Skin: total length, 280 mm.; tail vertebrae, 105; hind foot, 32. Skull: greatest length, 35.5; zygomatic breadth, 19; length of maxillary tooth row, 6.4.

**Sigmodon sanjonensis** Goodwin

Amer. Mus. Novitates, no. 528, pp. 1–2, May 23, 1932.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 280 mm.; tail vertebrae, 124; hind foot, 30. Skull: greatest length, 33.1; zygomatic breadth, 18.5; length of maxillary tooth row, 5.6.

**Sigmodon vulcani** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 255 mm.; tail vertebrae, 95; hind foot, 32. Skull: greatest length, 34; zygomatic breadth, 18.6; length of maxillary tooth row, 6.

**Fulviventer Group**

**Sigmodon fulviventer** J. A. Allen


Measurements: Skin: head and body, 6.4 inches; tail vertebrae, 4.25 inches; hind foot, 1.3 inches. Skull: greatest length, 35.4 mm.; zygomatic breadth, 21.3; length of maxillary tooth row, 6.3.

South American Forms

Sigmodon chonensis J. A. Allen


Measurements: Skin: total length, 260 mm.; tail vertebrae, 80; hind foot, 30. Skull: greatest length, 36; zygomatic breadth, 20; length of maxillary tooth row, 6.5.

Sigmodon inopinatus Anthony
Amer. Mus. Novitates, no. 114, pp. 3-4, May 29, 1924.


Measurements: Skin: total length, 259 mm.; tail vertebrae, 99; hind foot, 31. Skull: greatest length, 35.6; zygomatic breadth, 21.5; length of maxillary tooth row, 6.8.

Sigmodon peruanus J. A. Allen


Measurements: Skin: total length, 245 mm.; tail vertebrae, 95; hind foot, 31. Skull: greatest length, 36.3; zygomatic breadth, 23.4; length of maxillary tooth row, 6.5.

Genus Neotoma Say and Ord

Floridana Group

Neotoma campestris J. A. Allen


Measurements: Skin: total length, 388 mm.; tail vertebrae, 170; hind foot, 40. Skull: greatest length, 50; zygomatic breadth, 26.5; length of maxillary tooth row, 9.5.

Neotoma attwateri Mearns


Measurements: Skin: total length, 387 mm.; tail vertebrae, 178; hind foot, 39.4. Skull: greatest length, 53; zygomatic breadth, 27.3; length of maxillary tooth row, 8.5.

Neotoma micropus caniceps J. A. Allen


Measurements: Skin (dry): total length, 322 mm.; tail vertebrae, 127; hind foot, 37. Skull: greatest length, 48.5; zygomatic breadth, 27; length of maxillary tooth row, 8.8.

1 No type was designated in the original description, but Allen tied his type label on number 3030/2350. Possibly in error Allen marked number 3031/2551, a female, as type in the catalogue and in his personal separate, but both entries were later changed in favor of the labeled type.
**Albigula Group**

*Neotoma intermedia durangae* J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**:
- Skin: total length, 356 mm.; tail vertebrae, 159; hind foot, 33. Skull: greatest length, 45; zygomatic breadth, 23.6; length of maxillary tooth row, 8.8.

**Intermediate Group**

*Neotoma anthonyi* J. A. Allen


Skin in good condition. Skull complete.

**Measurements**:
- Skin: total length, 345 mm.; tail vertebrae, 146; hind foot, 35.5. Skull: greatest length, 46.3; zygomatic breadth, 25; length of maxillary tooth row, 8.3.

**Mexicana Group**

*Neotoma chrysomelas* J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**:
- Skin: total length, 380 mm.; tail vertebrae, 170; hind foot, 36. Skull: greatest length, 47; zygomatic breadth, 24.9; length of maxillary tooth row, 9.

**Subgenus Teonomia** Gray

*Neotoma grangeri* J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**:
- Skin: total length, 15 8/16 inches; tail vertebrae, 6 13/16 inches; hind foot, 1 8/16 inches. Skull: greatest length, 51 mm.; zygomatic breadth, 27.5; length of maxillary tooth row, 9.8.

*Neotoma cinnamomea* J. A. Allen


Skin in good condition. Skull complete except for last right lower molar.

**Measurements**:
- Skin: total length, 356 mm.; tail vertebrae, 151; hind foot, 40. Skull: greatest length, 49; zygomatic breadth, 25.5; length of maxillary tooth row, 9.7.

*Neotoma rupicola* J. A. Allen


Skin in good condition. Skull complete.

**Measurements**:
- Skin: total length, 336 mm.; tail vertebrae, 154; hind foot, 40. Skull: greatest length, 47.5; zygomatic breadth, 24.5; length of maxillary tooth row, 10.3.

**Genus Ichthyomys** Thomas

*Ichthyomys tweedii* Anthony

Amer. Mus. Novitates, no. 20, pp. 1–2, 4, November 3, 1921.

47798. Skin and skull. Adult male. Portovelo, Cuenca, Ecuador. According to Robert B. Finley, Jr., of the University of Kansas, writes me that he is referring *Neotoma cinerea cinnamomea* Allen to *Neotoma cinerea arizonae* Merriam.
Genus **Ichthyomys** Anthony

**Ichthyomys orientalis** Anthony

Amer. Mus. Novitates, no. 55, pp. 7–8, January 31, 1923.


Skin in good condition. Skull complete except for zygomatic arches.

**MEASUREMENTS:** Skin: total length, 317 mm.; tail vertebrae, 150; hind foot, 36. Skull: greatest length, 35.3; zygomatic breadth, 18.8; length of maxillary tooth row, 5.

Genus **Daptomys** Anthony

**Daptomys venezuelae** Anthony


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 236 mm.; tail vertebrae, 105; hind foot, 27. Skull: greatest length, 28.5; zygomatic breadth, 13.6; length of maxillary tooth row, 4.0.

Genus **Neusticomys** Anthony

**Neusticomys monticolus** Anthony

Amer. Mus. Novitates, no. 20, pp. 2–4, November 3, 1921.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 204 mm.; tail vertebrae, 111; hind foot, 25. Skull: greatest length, 26; zygomatic breadth, 12; length of maxillary tooth row, 4.3.

Genus **Calomyscus** Thomas

**Calomyscus elburzensis** Goodwin

Amer. Mus. Novitates, no. 1050, pp. 1–2, December 1, 1939.

=C**alomyscus bailwardi elburzensis** Goodwin. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 621, November 19, 1951.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 160 mm.; tail vertebrae, 80; hind foot, 21. Skull: greatest length, 25; zygomatic breadth, 12.8; length of maxillary tooth row, 3.3.

Genus **Cricetulus** Milne-Edwards

**Cricetulus andersoni nigrescens** G. M. Allen


=C**ricetulus longicaudatus nigrescens** Allen. According to Argyropulo, Zeitschr. f. Säugetierk., vol. 8, p. 147, 1933.


Skin in good condition. Skull complete except left zygomatic arch broken.

**MEASUREMENTS:** Skin (dry): total length, 138 mm.; tail vertebrae, 29.5; hind foot, 18.2. Skull: greatest length, 26; zygomatic breadth, 12.8; length of maxillary tooth row, 4.1.

**Cricetulus migratorius curtatus** G. M. Allen

Amer. Mus. Novitates, no. 179, pp. 3–4, June 23, 1925.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 133 mm.; tail vertebrae, 18; hind foot (s.u.), 17. Skull: greatest length, 32.6; zygomatic
breadth, 18; length of maxillary tooth row, 4.9.

**Cricetus triton fuscipes** G. M. Allen


Skin in good condition. Skull with right side of braincase crushed but repaired.

**Measurements**: Skin (dry): total length, 225 mm.; tail vertebrae, 50; hind foot, 23.5. Skull: greatest length, 36.5; zygomatic breadth, 17.3; length of maxillary tooth row, 5.5.

**Cricetus triton collinus** G. M. Allen
Amer. Mus. Novitates, no. 179, pp. 5–6, June 23, 1925.

56389. Skin and skull. Adult female.

Skin in good condition. Skull not located.

**Measurements**: Skin: total length, 227 mm.; tail vertebrae, 72; hind foot, 25.

**Genus MYOSPALAX** Laxmann

**Myotalpa rufescens** J. A. Allen


Skin in poor condition. Skull cut off behind first upper molars.

**Measurements**: Skin: total length, 219 mm.; tail vertebrae, 33; hind foot, 32.

**Genus SYNAPTOMYS** Baird

**Synaptomys** (Mictomys) andersoni J. A. Allen


20467. Skin and skull. Immature female.

**Measurements**: Skin: total length, 120 mm.; tail vertebrae, 25; hind foot, 18. Skull: greatest length, 14.6; zygomatic breadth, 14.5; length of maxillary tooth row, 6.6.

**Synaptomys** (Mictomys) **champani** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**: Skin: total length, 134 mm.; tail vertebrae, 21; hind foot, 20. Skull: greatest length, 26; zygomatic breadth, 15.5; length of maxillary tooth row, 7.

**Genus LEMMUS** Link

**Lemmus obensis** chrysogaster J. A. Allen

= **Lemmus sibiricus** chrysogaster Allen. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 656, November 19, 1951.

Skin in poor condition, scalp detached. Skull complete.

**Measurements**: Skin: total length, 97 mm.; tail vertebrae, 10; hind foot, 17. Skull: greatest length, 25; zygomatic breadth, 16.5; length of maxillary tooth row, 7.

**Genus CLETHRIONOMYS** Tileius

**Evotomys jochelsoni** J. A. Allen


19538. Specimen in alcohol, skull removed.

Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 107 mm.; tail vertebrae, 22; hind foot, 17. Skull: greatest length, 21.8; zygomatic breadth, 11.7; length of maxillary tooth row, 4.7.

*Ewotomys fuscodorsalis* J. A. Allen


*Phenacomys constablei* J. A. Allen


*Phenacomys intermedius intermedius* Merriam.

According to A. B. Howell, North Amer. Fauna, no. 48, p. 15, October 12, 1926.


Skin in fair condition. Skull with braincase crushed but repaired.

**Measurements:** Skin: total length, 124 mm.; tail vertebrae, 31.7; hind foot, 19. Skull: greatest length, 21.2; zygomatic breadth, 13; length of maxillary tooth row, 6.

**Genus Microtus Schrank**

**Pennsylvanicus Group**

*Arvicola insperatus* J. A. Allen


Skin in fair condition. Skull complete except for break in zygomatic arch on right side.

**Measurements:** Skin: total length, 154 mm.; tail vertebrae, 43; hind foot, 19. Skull: greatest length, 27.5; length of maxillary tooth row, 6.5.

*Microtus stonei* J. A. Allen


Skin in fair condition. Skull lacking occipital and basi-occipital regions.

**Measurements:** Skin lacking occipital.

**Genus Ondatra Link**

*Fiber zibethicus pallidus* Mearns


2346/1767 (cotype). Skin and skull. Adult male. September 17, 1885.


Skulls in fair condition. Skulls: 1767 complete; 1763 not located.

**Measurements:** Skins: total length, 480 mm., 493; tail vertebrae, 208, 210; hind foot, 67, 68. Skull: greatest length, 58.2; zygomatic breadth, 36.2; length of maxillary tooth row, 14.5.

**Genus Phenacomys Merriam**

*Phenacomys constablei* J. A. Allen


*Phenacomys intermedius intermedius* Merriam.

According to A. B. Howell, North Amer. Fauna, no. 48, p. 15, October 12, 1926.
MEASUREMENTS: Skin: total length, 6 5/8 inches; tail vertebrae, 1 3/4 inches; hind foot, 1 3/4 inches. Skull: greatest length, 29; zygomatic breadth, 16; length of maxillary tooth row, 7.2.

**Longicaudus Group**

**Microtus vellerosus** J. A. Allen

MEASUREMENTS: Skin: total length, 173 mm.; tail vertebrae, 59; hind foot, 19. Skull: greatest length, 27; zygomatic breadth, 15; length of maxillary tooth row, 6.

**Microtus caurus** J. A. Allen

MEASUREMENTS: Skin: total length, 165 mm.; tail vertebrae, 54; hind foot, 20.5. Skull: greatest length, 25.6; zygomatic breadth, 15; length of maxillary tooth row, 6.3.

**Arvicola leucophaeus** J. A. Allen

MEASUREMENTS: Skin: total length, 173 mm.; tail vertebrae, 50; hind foot, 22.5. Skull: greatest length, 27.7; zygomatic breadth, 15; length of maxillary tooth row, 6.5.

**Mexicanus Group**

**Arvicola mogollonensis** Mearns

MEASUREMENTS: Skin: total length, 121 mm.; tail vertebrae, 31; hind foot, 18. Skull: greatest length, 23; zygomatic breadth, 12.8; length of maxillary tooth row, 6.

**Arvalis Group**

**Microtus arvalis khorkoutensis** Goodwin
Amer. Mus. Novitates, no. 1082, p. 8, July 18, 1940.


**Microtus hyrcania** Goodwin

88760. Skin and skull. Adult male. Gouladah,

Skin in good condition. Skull complete.

MEASUREMENTS: Skin: total length, 135 mm.; tail vertebrae, 33; hind foot, 19.5. Skull: greatest length, 25.4; zygomatic breadth, 15; length of maxillary tooth row, 6.

**Socialis Group**

*Microtus gravesi* Goodwin


MEASUREMENTS: Skin: total length, 120 mm.; vertebrae, 25; hind foot, 18. Skull: greatest length, 26; zygomatic breadth, 15.5; length of maxillary tooth row, 6.2.

**Subgenus PHAIOMYS** Blyth

*Microtus mandarinus faeceus* G. M. Allen

Amer. Mus. Novitates, no. 133, pp. 8–9, September 30, 1924.


MEASUREMENTS: Skin (dry): 126 mm.; tail vertebrae, 19; hind foot, 21. Skull: greatest length, 26.9; zygomatic breadth, 16.5; length of maxillary tooth row, 6.4.

**Genus EOTHENOMYS** Miller

*Microtus (Anteliomys) custos rubellus* G. M. Allen

Amer. Mus. Novitates, no. 133, pp. 5–6, September 30, 1924.


MEASUREMENTS: Skin: total length, 141 mm.; tail vertebrae, 41; hind foot, 18.5. Skull: greatest length, 24.5; zygomatic breadth, 14.2; length of maxillary tooth row, 6.1.

**Genus ALTICOLA** Blanford

*Microtus (Alticola) worthingtoni semicanus* G. M. Allen

Amer. Mus. Novitates, no. 133, pp. 6–7, September 30, 1924.


MEASUREMENTS: Skin: total length, 140 mm.; tail vertebrae, 30; hind foot, 19. Skull: greatest length, 29.1; zygomatic breadth, 16.7; length of maxillary tooth row, 6.7.

**Genus LAGURUS** Gloger

*Microtus (Lagurus) curtatus artemisiae* Anthony


MEASUREMENTS: Skin total length, 129 mm.; tail vertebrae, 24; hind foot, 17. Skull: greatest length, 23.7; zygomatic breadth, 14.2; length of maxillary tooth row, 6.1.
Genus Ellobius Fischer

Ellobius larvatus G. M. Allen
Amer. Mus. Novitates, no. 133, pp. 11–12, September 30, 1924.


Skin in fair condition. Skull lacking last upper molar on right and left sides.

Measurements: Skin: total length, 116 mm.; tail vertebrae, 11; hind foot, 23. Skull: greatest length, 32; zygomatic breadth, 21; length of maxillary tooth row, 8.0.

Ellobius orientalis G. M. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 118 mm.; tail vertebrae, 10; hind foot, 21. Skull: greatest length, 28.5; zygomatic breadth, 19; length of maxillary tooth row, 6.4.

Fusocapillus Group

Ellobius fusocapillus legendrei Goodwin
Amer. Mus. Novitates, no. 1082, p. 9, July 18, 1940.


Skin in good condition. Skull complete.

Measurements: Skin: total length, 130 mm.; tail vertebrae, 5; hind foot, 22. Skull: greatest length, 33; zygomatic breadth, 21.6; length of maxillary tooth row, 7.6.

Genus Tatera Lataste

Tatera robusta taylori Hatt
Amer. Mus. Novitates, no. 791, pp. 1–2, April 11, 1935.


Skin in good condition. Skull complete except that last upper right and last lower left molars are lacking, and the nasals are broken.

Measurements: Skin: total length, 328 mm.; tail vertebrae, 180; hind foot, 38. Skull: greatest length, 39.8; zygomatic breadth, 20.3; length of maxillary tooth row, 5.8.

Tatera nigrita beniensis Hatt


Skin in good condition. Skull with nasals and anterior palatal region crushed.

Measurements: Skin: total length, 274 mm.; tail vertebrae, 128; hind foot, 35. Skull: zygomatic breadth, 19.8; length of maxillary tooth row, 7.2.

Tatera nyassae loveridgei Hatt


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 295 mm.; tail vertebrae, 150; hind foot, 31. Skull: greatest length, 39; zygomatic breadth, 20; length of maxillary tooth row, 6.7.

Taterona humphetensis Hill and Carter
Amer. Mus. Novitates, no. 913, pp. 5–7, fig. 3, March 8, 1937.
Genus TATERILLUS Thomas

Taterillus emini anthonyi Hatt
Amer. Mus. Novitates, no. 708, pp. 2–4, fig. 1, April 4, 1934.

Measurements: Skin: total length, 316 mm.; tail vertebrae, 182; hind foot, 35. Skull: greatest length, 37.4; zygomatic breadth, 18; length of maxillary tooth row, 6.

Genus MERIONES Illiger

Meriones (Parameriones) persicus gurganensis Goodwin
Amer. Mus. Novitates, no. 1050, pp. 2–3, December 1, 1939.

Measurements: Skin: total length, 325 mm.; tail vertebrae, 175; hind foot, 43. Skull: greatest length, 42.3; zygomatic breadth, 21.5; length of maxillary tooth row, 6.1.

Meriones (Pallasiomys) iranensis Goodwin
Amer. Mus. Novitates, no. 1050, p. 3, December 1, 1939.

Measurements: Skin: total length, 300 mm.; tail vertebrae, 128; hind foot, 35. Skull: greatest length, 40.5; zygomatic breadth, 22; length of maxillary tooth row, 6.2.

Genus RHOMBOMYS Wagner

Rhombomys opinus sodalis Goodwin
Amer. Mus. Novitates, no. 1050, p. 4, December 1, 1939.

Measurements: Skin: total length, 320 mm.; tail vertebrae, 140; hind foot, 45. Skull: greatest length, 45.9; zygomatic breadth, 25.8; length of maxillary tooth row, 7.5.

Family MURIDAE Gray

Genus HAPALOMYS Blyth

Hapalomys marmosa G. M. Allen


= Hapalomys longicaudatus marmosa Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 559, November 19, 1951.

Measurements: Skin: total length, 268 mm.; tail vertebrae, 138; hind foot, 21.

Genus VERNAYA Anthony

Chiropodomys fulvus G. M. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 208 mm.; tail vertebrae, 133; hind foot, 18.5. Skull: greatest length, 22.3; zygomatic breadth, 11.7; length of maxillary tooth row, 3.3.

Genus Apodemus Kaup

Apodemus flavicollis alpinus Heinrich

Apodemus flavicollis alpicola Heinrich


Skin in good condition. Skull complete.

Measurements: Skin: total length, 222 mm.; tail vertebrae, 122; hind foot, 25. Skull: greatest length, 27.5; zygomatic breadth, 14; length of maxillary tooth row, 4.

Genus Thamnomyss Thomas

Thamnomyss venustus schoutedeni Hatt


Skin in good condition. Skull complete.

Measurements: Skin: total length, 325 mm.; tail vertebrae, 203; hind foot, 24. Skull: greatest length, 34.3; zygomatic breadth, 15.9; length of maxillary tooth row, 5.7.

Thamnomyss kemp major Hatt


Skin in good condition. Skull complete.

Measurements: Skin: total length, 357 mm.; tail vertebrae, 201; hind foot, 31. Skull: greatest length, 39.3; zygomatic breadth, 18.9; length of maxillary tooth row, 7.5.

Genus Grammomys Thomas

Grammomys (Grammomys) surdaster callithrix Hatt
Amer. Mus. Novitates, no. 708, p. 11, April 4, 1934.


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 270 mm.; tail vertebrae, 160; hind foot, 25. Skull: greatest length, 28.2; zygomatic breadth, 14.2; length of maxillary tooth row, 4.3.

Grammomys surdaster angolensis Hill and Carter
Amer. Mus. Novitates, no. 913, pp. 4, 10, March 8, 1937.


Skin in good condition. Skull complete except for first upper right molar.

Measurements: Skin: total length, 275 mm.; tail vertebrae, 166; hind foot, 23.5. Skull: greatest length, 29.7; zygomatic breadth, 14.6; length of maxillary tooth row, 4.4.

Genus Conilurus Ogilby

Conilurus randi Tate and Archbold
Amer. Mus. Novitates, no. 982, pp. 1–2, May 12, 1938.

Dasmys nudipes 9.0. row, 86889. Skin 51. foot, complete. Skull for except length, 10.6; breadth, 8.3; vertebrae, 171 (incomplete); hind foot, 51. Skull: greatest length, 47.2; zygomatic breadth, 24.4; length of maxillary tooth row, 9.0.

**Genus DASYMYS Peters**

Dasmys nudipes edsoni Hatt

Amer. Mus. Novitates, no. 808, pp. 6–7, April 4, 1934.


**measurements:** Skin: total length, 323 mm.; tail vertebrae, 164; hind foot, 37. Skull: greatest length, 36.9; zygomatic breadth, 18.8; length of maxillary tooth row, 6.7.

**Genus ARVICANTHIS Lesson**

Arvicanthis nairobae J. A. Allen


**measurements:** Skin: total length, 320 mm.; tail vertebrae, 116; hind foot (s.u.), 26. Skull: greatest length, 34.2; zygomatic breadth, 16.8; length of maxillary tooth row, 6.5.

**Genus LEMNISCOMYS Trouessart**

Lemniscomys oweni orientalis Hatt


**measurements:** Skin: total length, 196 mm.; tail vertebrae, 114; hind foot, 23. Skull: greatest length, 26.7; zygomatic breadth, 12.5; length of maxillary tooth row, 4.6.

**Genus AETHOMYS Thomas**

Aethomys vernayi Hill and Carter

Amer. Mus. Novitates, no. 913, pp. 3, 10, text fig. 2, March 8, 1937.


**measurements:** Skin: total length, 286 mm.; tail vertebrae, 117; hind foot, 27. Skull: greatest length, 35.4; zygomatic breadth, 18.8; length of maxillary tooth row, 6.8.

**Genus MYOMYS Thomas**

Aethomys avunculus phippsi Hill and Carter


**measurements:** Skin: total length, 287 mm.; tail vertebrae, 156; hind foot, 28. Skull: greatest length, 32.6; zygomatic breadth, 15.8; length of maxillary tooth row, 5.8.

**Genus MASTOMYS Thomas**

Mastomys coucha itigiensis Hatt


**measurements:** Skin: total length, 187 mm.; tail vertebrae, 92; hind foot, 21. Skull: greatest length, 26.7; zygomatic breadth, 13.1; length of maxillary tooth row, 4.7.

**Genus PRAOMYS Thomas**

Prtaomys jacksoni minor Hatt

Amer. Mus. Novitates, no. 708, pp. 11–12, April 4, 1934.


Skin in good condition. Skull lacking left zygoma and parts of left wall of braincase.

Measurements: Skin: total length, 241 mm.; tail vertebrae, 136; hind foot, 25 [sic, probably 22.5]. Skull: greatest length, 29.2; zygomatic breadth, about 14; length of maxillary tooth row, 4.1.

Praomys jacksoni octomastis Hatt


Skin in fair condition, epidermis slipped on abdomen. Skull lacking right and left zygomatic arches.

Measurements: Skin: total length, 240 mm.; tail vertebrae, 130; hind foot, 22. Skull: greatest length, 29; length of maxillary tooth row, 4.4.

Praomys tullbergi lukolelæe Hatt


Skin in fair condition. Skull complete except for left malar bone.

Measurements: Skin: total length, 257 mm.; tail vertebrae, 141. Hind foot, 30. Skull: greatest length, 32.6; zygomatic breadth, 14.5; length of maxillary tooth row, 4.8.

Genus Rattus Fischer

Rattus rattus hainanicus G. M. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 400 mm.; tail vertebrae, 222; hind foot, 31. Skull: greatest length, 44; zygomatic breadth, 20.7; length of maxillary tooth row, 7.8.

Rattus rattus keelingensis Tate


Skin in good condition. Skull complete.

Measurements: Skin: total length, 381 mm.; tail vertebrae, 205; hind foot (s.u.), 37.5. Skull: greatest length, 39.5; zygomatic breadth, 18.6; length of maxillary tooth row, 6.5.

Rattus rattus palembang Tate and Archbold
Amer. Mus. Novitates, no. 802, pp. 1–2, May 18, 1935.


Skin in fair condition. Skull complete.

Measurements: Skin: total length, 376 mm.; tail vertebrae, 203; hind foot, 35. Skull: greatest length, 40; zygomatic breadth, 19.7; length of maxillary tooth row, 7.1.

Mus kijabius J. A. Allen


Skin in fair condition. Skull complete except for left zygoma.

Measurements: Skin: total length, 290 mm.; tail vertebrae, 153; hind foot (s.u.), 27. Skull: greatest length, 33.5; zygomatic breadth, 15.5; length of maxillary tooth row, 6.5.
**Rattus lalolis** Tate and Archbold


Skin in good condition. Skull crushed in sphenoidal region.

**Measurements:** Skin: total length, 367 mm.; tail vertebrae, 215; hind foot, 40. Skull: greatest length, 46.5.

**Rattus humilissus celsius** G. M. Allen
Amer. Mus. Novitates, no. 217, pp. 5–6, June 16, 1926.


=R**attus rattioides celsius** Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 588, November 19, 1951.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 358 mm.; tail vertebrae, 198; hind foot, 33. Skull: greatest length, 40.5; zygomatic breadth, 19.5; length of maxillary tooth row, 7.6.

**Rattus hookmani mengkoka** Tate and Archbold


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 324 mm.; tail vertebrae, 138; hind foot, 37. Skull: greatest length, 44; zygomatic breadth, 22.3; length of maxillary tooth rows, 8.

**Rattus mollicomulus** Tate and Archbold


Skin in good condition. Skull with crushed braincase.

**Measurements:** Skin: total length, 299 mm.; tail vertebrae, 146; hind foot, 33. Skull: zygomatic breadth, 19; length of maxillary tooth row, 6.6.

**Mus luteiventris** J. A. Allen


Skin in poor condition. Skull incomplete, cut off behind interorbital region.

**Measurements:** Skin: total length, 293 mm.; tail vertebrae, 130; hind foot, 28. Skull: zygomatic breadth, 14; length of maxillary tooth row, 5.4.

**Rattus arcuatus** Tate and Archbold


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 448 mm.; tail vertebrae, 245; hind foot, 43.5. Skull: greatest length, 50; zygomatic breadth, 21.7; length of maxillary tooth row, 9.3.

**Rattus salocco** Tate and Archbold
Amer. Mus. Novitates, no. 802, pp. 7–8, May 18, 1935.

101119. Archbold Collections. Skin and skull. Adult female. Tanka Salocco, Mengkoka Range, southeastern Celebes, Netherlands...
Skin in good condition. Skull complete.
MEASUREMENTS: Skull: total length, 476 mm.; tail vertebrae, 265; hind foot, 39. Skull: greatest length, 46; zygomatic breadth, 23.5; length of maxillary tooth row, 7.7.

Rattus microbullatus Tate and Archbold
Amer. Mus. Novitates, no. 802, p. 8–9, May 18, 1935.

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 426 mm.; tail vertebrae, 223; hind foot, 42. Skull: greatest length, 50.4; zygomatic breadth, 25.2; length of maxillary tooth row, 9.

Rattus penitus inferior Tate and Archbold
Amer. Mus. Novitates, no. 802, p. 6, May 18, 1935.

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 347 mm.; tail vertebrae, 170; hind foot, 40.5. Skull: greatest length, 45.3; zygomatic breadth, 20.5; length of maxillary tooth row, 7.8.

Rattus penitus heinrichi Tate and Archbold

Skin in good condition. Skull somewhat crushed.
MEASUREMENTS: Skin: total length, 298 mm.; tail vertebrae, 136; hind foot, 35. Skull: greatest length, 40 mm.; zygomatic breadth, 19.9; length of maxillary tooth row, 7.3.

Rattus brevimolaris Tate and Archbold

Skin in fair condition. Skull complete.
MEASUREMENTS: Skin: total length, 295 mm.; tail vertebrae, 138; hind foot, 34. Skull: greatest length, 39.6; zygomatic breadth, 19; length of maxillary tooth row, 6.2.

Rattus huang vulpicolor G. M. Allen

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 343 mm.; tail vertebrae, 203; hind foot, 31. Skull: greatest length, 36; zygomatic breadth, 16.3; length of maxillary tooth row, 6.

Bunomys caelestis koka Tate and Archbold
= Rattus caelestis koka (Tate and Archbold). According to Ellerman, The families and genera of living rodents, p. 191, March 21, 1941.

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 283 mm.; tail vertebrae, 148; hind foot, 33.5. Skull: greatest length, 38.7; zygomatic
breadth, 18.1; length of maxillary tooth row, 6.1.

*Rattus confucianus lotipes* G. M. Allen
Amer. Mus. Novitates, no. 217, pp. 11–12, June 16, 1926.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 315 mm.; tail vertebrae, 180; hind foot, 30. Skull: greatest length, 39.5; zygomatic breadth, 16.5; length of maxillary tooth row, 6.5.

*Rattus aspinatus* Tate and Archbold

101281. Archbold Collections. Skin and skull.


Skin in good condition. Skull badly crushed.

**Measurements:** Skin: total length, 191 mm.; tail vertebrae, 93; hind foot, 26.5. Skull: length of maxillary tooth row, 6.0.

*Rattus leucopus mclwraithi* Tate

153968. Archbold Collections. Skin and skull.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 340 mm.; tail vertebrae, 170; hind foot (s.u.), 38. Skull: greatest length, 41.8; zygomatic breadth, 20; length of maxillary tooth row, 6.0.

*Rattus leucopus cooktownensis* Tate

153986. Archbold Collections. Skin and skull.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 365 mm.; tail vertebrae, 180; hind foot (s.u.), 39. Skull: greatest length, 44.6; zygomatic breadth, 21; length of maxillary tooth row, 6.

*Rattus lacus* Tate

107312. Archbold Collections. Skin and skull.


Skin with tail incomplete. Skull complete.

**Measurements:** Skin: total length, 257 mm.; tail vertebrae, 99; hind foot (s.u.), 29. Skull: greatest length, 36.5; zygomatic breadth, 19.8; length of maxillary tooth row, 7.2.

*Rattus richardsoni* Tate

150701. Archbold Collections. Skin and skull.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 305 mm.; tail vertebrae, 144; hind foot (s.u.), 39. Skull: greatest length, 39.7; zygomatic breadth, 18; length of maxillary tooth row, 6.3.

*Rattus brachyrhinus* Tate and Archbold

104210. Archbold Collections. Skin and skull.


Skin in good condition. Skull complete.
Measurements: Skin: total length, 328 mm.; tail vertebrae, 141; hind foot, 31. Skull: greatest length, 39.3; zygomatic breadth, 20; length of maxillary tooth row, 6.8.

Genus Pseudomys Gray
Subgenus Gyomys Thomas

Mus albocinereus Gould

683 (possibly a cotype with the one marked as type in British Museum). Skin and skull. Australia. Verreaux Collection.
Skin, dismounted specimen, in faded condition. Skull lacking basicranial region. The original label bears the inscription "1502 (226) Type de Gould. Mus albocinereus Gould, Australia."
Measurements: Skin: total length, 165 mm.; tail vertebrae, 83.5; hind foot, 21.8. Skull: greatest length, 24.5; zygomatic breadth, 11.5; length of maxillary tooth row, 3.6.

Genus Melemys Thomas

Melemys albidens Tate

Skin in good condition. Skull complete.
Measurements: Skin: total length, 284 mm.; tail vertebrae, 162; hind foot (s.u.), 26. Skull: condylobasal length, 27.3; zygomatic breadth, 15.8; length of maxillary tooth row, 5.3.

Subgenus Paramelomys Rümann

Melemys shawi Tate and Archbold

Skin in good condition. Skull complete.
Measurements: Skin: total length, 219 mm.; tail vertebrae, 109; hind foot, 27. Skull: greatest length, 32.9; zygomatic breadth, 16.4; length of maxillary tooth row, 6.4.

Melemys tafa Tate and Archbold

Skin in good condition. Skull complete.
Measurements: Skin: total length, 271 mm.; tail vertebrae, 143; hind foot, 30.3. Skull: greatest length, 34.7; zygomatic breadth, 17.1; length of maxillary tooth row, 6.7.

Melemys moncktoni sturti Tate

Skin in good condition. Skull complete.
Measurements: Skin: total length, 267 mm.; tail vertebrae, 116; hind foot (s.u.), 30. Skull: condylobasal length, 36.8; zygomatic breadth, 19.8; length of maxillary tooth row, 6.6.

Melemys cervinipes bunya Tate

Skin in good condition. Skull complete.
Measurements: Skin: total length, 263
breadth, 17.2; length of maxillary tooth row, 6.7.

**Melomys cervinipes capensis** Tate


**Melomys latipes** Tate and Archbold


**Melomys lutillus frigicola** Tate


**Melomys rufescens niviventer** Tate


**Genus UROMYS** Peters

**Uromys neobrittanicus** Tate and Archbold


**Genus XENUROMYS** Tate and Archbold

**Xenuromys guba** Tate and Archbold

Amer. Mus. Novitates, no. 1101, p. 4, January 30, 1941.


**Genus LORENTZIMYS** Jentink

**Lorentzimys nouhuysii alticolus** Tate and Archbold


Genus Pogonomelomys Rümmler

Pogonomelomys bruijnii brassi Tate and Archbold Amer. Mus. Novitates, no. 1101, p. 6, January 30, 1941.


Pogonomelomys rümmleri Tate and Archbold Amer. Mus. Novitates, no. 1101, pp. 6–7, January 30, 1941.


Genus Mus Linnaeus

Hesperomys indianus Wied Arch. für Naturgesch. (Wiegmann), vol. 1, p. 111, 1862.


Mus musculus kahle-peninsularis Goodwin Amer. Mus. Novitates, no. 1082, pp. 10–11, July 18, 1940.


12520/10830. Skin and skull. Adult female. Jalapa, Veracruz, Mexico. Altitude, 4400

Skin in fair condition. Skull incomplete, cut off behind palate and lacking most of braincase.

MEASUREMENTS: Skin: total length, 168 mm.; tail vertebrae, 85; hind foot, 19. Skull: zygomatic breadth, 10.2; length of maxillary tooth row, 3.3.

**Mus bactrianus tantillus** G. M. Allen


MEASUREMENTS: Skin: total length, 131 mm.; tail vertebrae, 66; hind foot, 17. Skull: greatest length, 20; zygomatic breadth, 10.4; length of maxillary tooth row, 3.5.

**Subgenus LEGGADA Gray**

**Leggada cookii meator** G. M. Allen


Skin in good condition. Skull complete except for right side of mandible.

MEASUREMENTS: Skin: total length, 167 mm.; tail vertebrae, 80; hind foot, 20. Skull: greatest length, 23.5; zygomatic breadth, 11.6; length of maxillary tooth row, 4.

**Genus LOPHUROMYS Peter**

**Lophuromys luteogaster** Hatt


Skin in fair condition. Skull complete except zygomatic arches broken.

MEASUREMENTS: Skin: total length, 212 mm.; tail vertebrae, 102; hind foot, 22. Skull: greatest length, 29.2; zygomatic breadth, 24.5; length of maxillary tooth row, 4.8.

**Genus NESOKIA Gray**

**Nesokia insularis** Goodwin
Amer. Mus. Novitates, no. 1082, p. 12, July 18, 1940.


MEASUREMENTS: Skin: total length, 320 mm.; tail vertebrae, 120; hind foot, 40. Skull: greatest length, 46.4; zygomatic breadth, 28.3; length of maxillary tooth row, 9.6.

**Nesokia legendrei** Goodwin

=Nesokia (?i) indica legendrei= Goodwin. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 620, November 19, 1951.


Skin in good condition. Skull complete, except tips of upper incisors broken.

MEASUREMENTS: Skin: total length, 395 mm.; tail vertebrae, 170; hind foot, 41. Skull: greatest length, 51; zygomatic breadth, 30; length of maxillary tooth row, 10.4.

**Genus CRICETOMYS Waterhouse**

Cricetomys gambianus langi Hatt
Amer. Mus. Novitates, no. 708, pp. 5–6, April 4, 1934.

Skin in good condition. Skull complete. 

**MEASUREMENTS:** Skin: total length, 660 mm.; tail vertebrae, 340; hind foot, 62. Skull: greatest length, 67; zygomatic breadth, 32; length of maxillary tooth row, 10.5.

**Genus Dendromus Smith**


Skin in good condition. Skull lacking occipital region.

**MEASUREMENTS:** Skin: total length, 163 mm.; tail vertebrae, 86; hind foot, 20. Skull: greatest length, 22.1; zygomatic breadth, 11.9; length of maxillary tooth row, 3.8.

**Genus Steatomys Peters**


Skin in poor condition. Skull complete except for zygoma and squamosal.

**MEASUREMENTS:** Skin: total length, 150 mm.; tail vertebrae, 47; hind foot, 17. Skull: greatest length, 28.7; zygomatic breadth, 13.5; length of maxillary tooth row, 4.2.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 130 mm.; tail vertebrae, 45; hind foot, 17. Skull: greatest length, 23.5; zygomatic breadth, 12.1; length of maxillary tooth row, 4.1.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 150 mm.; tail vertebrae, 59; hind foot, 18. Skull: greatest length, 25.2; zygomatic breadth, 12; length of maxillary tooth row, 4.


Skin in good condition. Skull crushed but partly restored.

**MEASUREMENTS:** Skin: total length, 147 mm.; tail vertebrae, 55; hind foot, 17. Skull: greatest length, 26.3; length of maxillary tooth row, 4.2.

**Genus Otomys Cuvier**

*Otomys tropicalis faradjius* Hatt Amer. Mus. Novitates, no. 708, pp. 1–2, April 4, 1934.


Skin in good condition. Skull complete except for the second upper molar on right and left sides.

**MEASUREMENTS:** Skin: total length, 277 mm.; tail vertebrae, 97; hind foot, 32. Skull: greatest length, 39.7; zygomatic breadth, 19.8; length of maxillary tooth row, 8.4.

*Otomys cuanzensis* Hill and Carter Amer. Mus. Novitates, no. 913, pp. 7–9, 10, fig. 4, March 8, 1937.

Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 287 mm.; tail vertebrae, 109; hind foot, 33. Skull: greatest length, 43.6; zygomatic breadth, 21.1; length of maxillary tooth row, 9.8.

**Genus Lenomys** Thomas

*Lenomys meyeri lampo* Tate and Archbold


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 551 mm.; tail vertebrae, 276; hind foot, 45. Skull: occipitonasal length, 57.1; zygomatic breadth, 28.3; length of maxillary tooth row, 11.

**Genus Pogonomys** Milne-Edwards

*Pogonomys lepidus huo* Tate and Archbold

Amer. Mus. Novitates, no. 803, p. 6, May 18, 1935.


Skin in good condition. Skull complete except for jugal on both sides.

**Measurements:** Skin: total length, 320 mm.; tail vertebrae, 185; hind foot, 22. Skull: greatest length, 30.2; zygomatic breadth, 16.4; length of maxillary tooth row, 5.2.

*Pogonomys lepidus derimapa* Tate and Archbold


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 286 mm.; tail vertebrae, 174; hind foot, 23. Skull: greatest length, 31.1; zygomatic breadth, 17.2; length of maxillary tooth row, 5.4.

**Pogonomys (Chiruromys) forbesi satisfactus** Tate and Archbold

Amer. Mus. Novitates, no. 803, pp. 7–8, May 18, 1935.


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 360 mm.; tail vertebrae, 225 mm.; hind foot, 37. Skull: greatest length, 35; zygomatic breadth, 21.7; length of maxillary tooth row, 6.

**Pogonomys (Chiruromys) pulcher major** Tate and Archbold


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 390 mm.; tail vertebrae, 245; hind foot, 37. Skull: greatest length, 37.4; zygomatic breadth, 22.3; length of maxillary tooth row, 6.

**Pogonomys kagi** Tate


Skin in good condition. Skull somewhat crushed.

**MEASUREMENTS:** Skin: total length, 248 mm.; tail vertebrae, 141; hind foot (s.u.), 24. Skull: greatest length, 29.2; zygomatic breadth, 16.7; length of maxillary tooth row, 4.75.

**Genus HYDROMYS** Geoffroy

*Hydromys neobrittanicus* Tate and Archbold

Amer. Mus. Novitates, no. 803, pp. 8–9, May 18, 1935.


Skin in good condition. Skull complete except for left bulla.

**MEASUREMENTS:** Skin: total length, 577 mm.; tail vertebrae, 289; hind foot, 63. Skull: greatest length, 55.8; zygomatic breadth, 28.5; length of maxillary tooth row, 9.4.

*Hydromys habbema* Tate and Archbold


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 317 mm.; tail vertebrae, 170; hind foot (s.u.), 36. Skull: greatest length, 34; zygomatic breadth, 17.4; length of maxillary tooth row, 5.2.

**Genus LEPTOMYS** Thomas

*Leptomys signatus* Tate and Archbold


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 295 mm.; tail vertebrae, 151; hind foot (s.u.), 38. Skull: greatest length, 38.4; zygomatic breadth, 16.2; length of maxillary tooth row, 6.3.

**Genus PARALEPTOMYS** Tate and Archbold

*Paraleptomys wilhelmina* Tate and Archbold

Amer. Mus. Novitates, no. 1101, pp. 1–2, January 30, 1941.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 261 mm.; tail vertebrae, 135; hind foot (s.u.), 31. Skull: condylo-incisive length, 29.2; zygomatic breadth, 16.0; length of maxillary tooth row, 4.5.

**Genus PSEUODHYDROMYS** RüMMLER

*Pseudohydromys occidentalis* Tate


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 191 mm.; tail vertebrae, 90; hind foot, 20. Skull: condylobasal length, 24.7; zygomatic breadth, 11.8; length of maxillary tooth row, 2.7.

**Genus MICROHYDROMYS** Tate and Archbold

*Microhydromys richardsoni* Tate and Archbold

Amer. Mus. Novitates, no. 1101, pp. 2–3, January 30, 1941.

Richardson. 1938 New Guinea Expedition. Original number 7677.
Skin in good condition. Skull badly crushed.

Measurements: Skin: total length, 172 mm.; tail vertebrae, 92; hind foot (s. u.), 20. Skull: length of maxillary tooth row, 2.4.

**Family GLIRIDAE** Thomas

**Genus GLIS** Brisson

*Glis glis petruccii* Goodwin

Skin in good condition. Skull complete.
Measurements: Skin: total length, 220 mm.; tail vertebrae, 100; hind foot, 27. Skull: greatest length, 31.5; zygomatic breadth, 19.6; length of maxillary tooth row, 6.5.

**Genus CLAVIGLIS** Jentink

*Claviglis ansorgei cuanzensis* Hill and Carter
Amer. Mus. Novitates, no. 913, pp. 9–10, fig. 5, March 8, 1937.

Skin in fair condition. Skull complete except for first upper left premolar.
Measurements: Skin: total length, 149 mm.; tail vertebrae, 62; hind foot, 16. Skull: greatest length, 23.8; zygomatic breadth, 13.7; length of maxillary tooth row, 2.8.

**Family ZAPODIDAE** Coues

**Genus ZAPUS** Coues

*Zapus princeps* J. A. Allen

Measurements: Skin: total length, 238 mm.; tail vertebrae, 144; hind foot, 36. Skull: greatest length, 24.8; zygomatic breadth, 12.3; length of maxillary tooth row, 3.7.

*Zapus saltator* J. A. Allen


Skin in fair condition. Skull imperfect: lacking palate, upper incisors, and maxillary tooth row on left side.
Measurements: Skin: total length, 216 mm.; tail vertebrae, 140; hind foot, 32. Skull: greatest length, 21.5; zygomatic breadth, 11.5; length of maxillary tooth row, 4.1.

**Family DIPODIDAE** Waterhouse

**Genus STYLODIPUS** G. M. Allen

*Stylo dipus andrewsi* G. M. Allen
Amer. Mus. Novitates, no. 161, pp. 4–6, figs. 1–3, March 31, 1925.


Skin in good condition. Skull complete except for last upper left molar.
Measurements: Skin: total length, 278 mm.; tail vertebrae, 150; hind foot, 55. Skull: greatest length, 33; zygomatic breadth, 22.8; length of maxillary tooth row, 6.

**Genus ALLACTAGA** Cuvier

*Allactaga bullata* G. M. Allen

Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 293 mm.; tail vertebrae, 188; hind foot, 70. Skull: greatest length, 34; zygomatic breadth, 24; length of maxillary tooth row, 6.5.

*Allactaga elater turkeni* Goodwin

Amer. Mus. Novitates, no. 1082, p. 13, July 18, 1940.

=*Allactaga elater indica* Gray. According to Ellerman and Morrison-Scott, Checklist of Palaearctic and Indian mammals, p. 530, November 19, 1951.


**Measurements:** Skin: total length, 260 mm.; tail vertebrae, 152; hind foot, 54. Skull: greatest length, 27.9; zygomatic breadth, 20.9; length of maxillary tooth row, 5.2.

**Family HYSTRICIDAE** Burnett

**Genus HYSTRIX** Linnaeus

*Acanthion subcristatus papae* G. M. Allen


**Measurements:** Skin, taken in the flesh: total length, 670 mm.; tail vertebrae, 100. Skull: greatest length, 135; zygomatic breadth, 65; length of maxillary tooth row, 30.

**Genus ATERURUS** Cuvier

*Atherurus hainanus* J. A. Allen


**Measurements:** Skin: total length, 520 mm.; tail vertebrae, 139; hind foot, 64. Skull: greatest length, 91; zygomatic breadth, 45; length of maxillary tooth row, 16.2.

**Family ERETHIZONTIDAE** Thomas

**Genus ERETHIZON** Cuvier

*Erethizon epizanthus nigrescens* J. A. Allen


**Measurements:** Skin: total length, 740 mm.; tail vertebrae, 210; hind foot, 90. Skull: greatest length, 107; zygomatic breadth, 68; length of maxillary tooth row, 26.

†*Erethizon godfreyi* J. A. Allen


**Measurements:** Skull: greatest length, 104.3 mm.; zygomatic breadth, 69; length of maxillary tooth row, 25.

**Genus COENDOU** Lacépède

*Coendou sanctaemartae* J. A. Allen


Coendu’ quichua richardsoni J. A. Allen


Family Caviidae Waterhouse

Genus Cavia Pallas

Cavia porcellus venezuelae J. A. Allen


Cavia anolaimae J. A. Allen


Coendu

Skin in fair condition, fur slipped in places on side and abdomen. Skull lacking base of braincase and occipital region. Measurements: Skin: total length, 335 mm.; hind foot, 62. Skull: greatest length, 66.5; zygomatic breadth, 38; length of maxillary tooth row, 17.4.

Family Dinomysidae Alston

Genus Dinomys Peters

Dinomys gigas Anthony
Amer. Mus. Novitates, no. 19, pp. 6–7, October 26, 1921.


Family Dasyproctidae Smith

Genus Dasyprocta Illiger

Dasyprocta variegata zamorae J. A. Allen


Dasyprocta variegata chocoensis J. A. Allen

Dasyprocta variegata urucuma  J. A. Allen


MEASUREMENTS: Skin: total length, 570 mm.; tail vertebrae, 20; hind foot, 120. Skull: greatest length, 102.7; zygomatic breadth, 48.5; length of maxillary tooth row, 17.5.

Dasyprocta fuliginosa candens  J. A. Allen


MEASUREMENTS: Skin: total length, 570 mm.; tail vertebrae, 30; hind foot, 130. Skull: greatest length, 122.7; zygomatic breadth, 52.5; length of maxillary tooth row, 22.

Genus MYOPROCTA Thomas

Myoprocta milleri  J. A. Allen


MEASUREMENTS: Skin: total length, 410 mm.; tail vertebrae, 50; hind foot, 80. Skull: greatest length, 80; zygomatic breadth, 40; length of maxillary tooth row, 12.9.

Myoprocta exilis demararae Tate


Skin in good condition. Skull with under side of braincase broken.

MEASUREMENTS: Skin: total length, 370 mm.; tail vertebrae, 50; hind foot (s.u.), 83. Skull: zygomatic breadth, 37.5; length of maxillary tooth row, 13.2.

Family CAPROMYIDAE Smith
Genus GEOCAPROMYS Chapman

Capromys ingrahami  J. A. Allen


MEASUREMENTS: Skin: total length, 335 mm.; tail vertebrae, 55; hind foot, 56. Skull: greatest length, 65; zygomatic breadth, 32.4; length of maxillary tooth row, 16.

Family ECHIMYIDAE Miller and Gidley
Genus PROECHIMYS J. A. Allen

Proechimys guyannensis arabupu Moojen


MEASUREMENTS: Skin: total length, 463 mm.; tail vertebrae, 220; hind foot, 56. Skull: greatest length, 58.6; zygomatic breadth, 27; length of maxillary tooth row, 8.7.

Echimys mincae  J. A. Allen


15389. Skin and skull. Adult male. Minca, Santa Marta District, Colombia. July 19,
Skin in fair condition. Skull lacking left nasal bone and last lower right molar.
MEASUREMENTS: Skin: total length, 456 mm.; tail vertebrae, 210; hind foot, 57. Skull:
greatest length, 59; zygomatic breadth, 26.8; length of maxillary tooth row, 8.6.

_Proechimys o'connelli_ J. A. Allen


Skin in fair condition. Skull complete except for broken left ramus.
MEASUREMENTS: Skin: total length, 415 mm.; tail vertebrae, 160; hind foot, 55. Skull:
greatest length, 60.5; zygomatic breadth, 28; length of maxillary tooth row, 9.5.

_Proechimys guyannensis riparum_ Moojen

Skin in fair condition, lacking tail. Skull not located.
MEASUREMENTS: Skin: head and body, 225 mm.; hind foot, 44. Skull: length of maxillary tooth row, 6.8.

_Echimys trinitatis_ J. A. Allen and Chapman


Skin in fair condition. Skull complete.
MEASUREMENTS: Skin: total length, 491 mm.; tail vertebrae, 230; hind foot, 53. Skull:
greatest length, 60.6; zygomatic breadth, 27; length of maxillary tooth row, 8.7.

_Echimys urichi_ J. A. Allen


Skin in rather poor condition. Skull complete.
MEASUREMENTS: Skin: total length, 370 mm.; tail vertebrae, 171; hind foot, 44. Skull:
greatest length, 47.6; zygomatic breadth, 23.3; length of maxillary tooth row, 8.2.

_Proechimys boimensis_ J. A. Allen


Skin in fair condition. Skull complete.
MEASUREMENTS: Skin: total length, 348 mm.; tail vertebrae, 149; hind foot, 45. Skull:
greatest length, 56.3; zygomatic breadth, 23.2; length of maxillary tooth row, 7.1.

_Proechimys semispinosus amphichoricus_ Moojen

Skin in good condition. Skull complete.
MEASUREMENTS: Skin: total length, 431 mm.; tail vertebrae, 181; hind foot, 57. Skull:
greatest length, 61.5; zygomatic breadth, 27; length of maxillary tooth row, 9.4.

_Proechimys kermiti_ J. A. Allen

Measurements: Skin: head and body 310 mm. (dry, 275); hind foot, 55. Skull: greatest length, 65; zygomatic breadth, 29.2; length of maxillary tooth row, 9.

Echimys canicollis J. A. Allen


Measurements: Skin: total length, 425 mm.; tail vertebrae, 178; hind foot, 50. Skull: greatest length, 53.3; zygomatic breadth, 25.2; length of maxillary tooth row, 8.5.

Genus HOPLOMYS J. A. ALLEN

Hoplomys truei J. A. Allen


Measurements: Skin: total length, 550 mm.; tail vertebrae, 170; hind foot, 45 (dry, 51). Skull: greatest length, 57; zygomatic breadth, 26.3; length of maxillary tooth row, 9.5.

Proechimys cayennensis hoplomyoides Tate


Measurements: Skin: total length, 376 mm.; tail vertebrae, 158; hind foot, 48. Skull: greatest length, 52.5; zygomatic breadth, 25.7; length of maxillary tooth row, 8.7.

Genus DIPLOMYS THOMAS

Isothrix rufodorsalis J. A. Allen


Measurements: Skin: total length, 457 mm.; tail vertebrae, 267; hind foot (s.u.), 35. Skull: greatest length, 518; zygomatic breadth, 24.5; length of maxillary tooth row, 11.

Genus ECHIMYS CUVIER

Loncheres carrikeri J. A. Allen


Measurements: Skin: total length, 467 mm.; tail vertebrae, 243; hind foot, 40. Skull:
greatest length, 52.3; zygomatic breadth, 26; length of maxillary tooth row, 12.5.

**Echimys longirostris** Anthony
Amer. Mus. Novitates, no. 19, pp. 5–6, October 26, 1921.

=*Echimys armatus armatus* Geoffroy St. Hilaire.


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 466 mm.; tail vertebrae, 225; hind foot, 38. Skull: greatest length, 36.5; zygomatic breadth, 26.3; length of maxillary tooth row, 11.7.

**Loncheres castaneus** J. A. Allen and Chapman


Skin in fair condition, lacking tail. Skull complete.

**MEASUREMENTS:** Skin: head and body, 245 mm.; hind foot, 40. Skull: greatest length, 55; zygomatic breadth, 25.8; length of maxillary tooth row, 11.2.

**Genus Dactylomys** Geoffroy

*Dactylomys boliviensis* Anthony


**MEASUREMENTS:** Skin: total length, 710 mm.; tail vertebrae, 410; hind foot, 60. Skull: greatest length, 74.1; zygomatic breadth, 34; length of maxillary tooth row, 17.7.

**Subgenus Lachnomys** Thomas

*Dactylomys peruanus* J. A. Allen


Skin in good condition. Skull lacking basal portion of braincase and occipital region; dentition complete.

**MEASUREMENTS:** Skin: total length, 560 mm.; tail vertebrae, 320; hind foot, 51. Skull: zygomatic breadth, 32.4; length of maxillary tooth row, 17.

**Genus Thrinacodus** Günther

*Thrinacodus apolinari* J. A. Allen


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin (dry): total length, 340 mm.; tail vertebrae, 260; Skull: greatest length, 57; zygomatic breadth, 26.6; length of maxillary tooth row, 14.2.

**Order Cetacea** Brisson

**Family Ziphiidae** Gray

**Genus Mesoplodon** Gervais

*Mesoplodon bowdoini* Andrews


**MEASUREMENTS:** Total length, 4222 mm.; length of skull, 715.

**Family Delphinidae** Gray

**Genus Tursiops** Gervais

*Tursiops truncatus* Andrews


Skull and jaws complete except for seven teeth.
Measurements: Approximate length of animal, 7 1/4 feet. Skull: greatest length, 482 mm.; greatest breadth, 238; length of upper tooth row, 215. mm.

Family Phocaenidae Bravard
Genus Phocaena Cuvier
Subgenus Phocaenoides Andrews
Phocaenoides truei Andrews


Skull and skeleton complete, bullae removed.

Measurements: Total length of animal, 1915 mm. Skull: greatest length, 339; greatest breadth, 190; alveolar length of upper tooth row, 95.

Order Carnivora Bowdich
Family Canidae Gray
Genus Canis Linnaeus
Canis imparis J. A. Allen


Measurements: Skin: total length, 1143 mm.; tail vertebrae, 305; hind foot, 178. Skull: greatest length, 190; zygomatic breadth, 93; length of maxillary tooth row, 80.

Genus Vulpes Frech
Vulpes anadyrensis J. A. Allen


Skin in fair condition. Skull complete except for upper right canine, last upper right molar; both bullae broken.

Measurements: Skin: total length, 1065 mm.; tail vertebrae, 374; hind foot, 168. Skull: greatest length, 153; zygomatic breadth, 80; length of maxillary tooth row, 68.7.

Genus Urocyon Baird
Urocyon virginianus scotti Mearns


Measurements: Skin: not taken. Skull: greatest length, 117.5 mm.; zygomatic breadth, 58.2; length of maxillary tooth row, 48.

Urocyon cinereoargentus venezuelae J. A. Allen


Measurements: Skin: total length, 610 mm.; tail vertebrae, 370; hind foot, 105.

Family Ursidae Gray
Genus Euartos Gray
Ursus americanus kenaiensis J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 28, art. 1, p. 6, January 5, 1919. (Name preoccupied by Ursus kenaiensis Merriam, 1904.)
**Ursus americanus** J. A. Allen


Skull complete.

**MEASUREMENTS:** Skull: greatest length, 253 mm.; zygomatic breadth, 143; length of maxillary tooth row, 92.5.

**Genus URSUS** Linnaeus

**Ursus merriami** J. A. Allen


Skull complete. Skull number 17621, referred to in the type description, not located.

**MEASUREMENTS:** Skin of 17621: total length, 3050 mm. Skull: greatest length, 395 mm.; zygomatic breadth, 209; length of maxillary tooth row, 140.

**Ursus holzworthi** Merriam

100181. Skin (skull United States National Museum number 248691). Head of Black River above timber line, Talkeetna Mountains, Alaska. September 23, 1929 (according to Poole and Schantz the date should be September 21, 1928, but Holzworth in his published field notes fixes the exact date as September 23, 1928.). Collector: John M. Holzworth. Presented to the American Museum by George D. Pratt, January 14, 1932.

Skin in fair condition (originally mounted).

**MEASUREMENTS:** Skin¹ (green), stretched out flat, length, 9 feet; width, 7 feet. Skull: greatest length, 374 mm.; zygomatic breadth,

¹ John Holzworth in his field notes gives the color as dark brown, with a scattering of gray-tipped hairs over the shoulders and along top of back.

243 mm.; length of upper molariform tooth row, 79 mm.

**Ursus andersoni** Merriam
North Amer. Fauna, no. 41, pp. 83–84, February 9, 1918.


Skull complete except for the first outer right lower incisor, a knife cut on the right molar bone, and broken canines; teeth well worn. There is no record of a skin.

**MEASUREMENTS:** Skull: basal length, 300 mm.; zygomatic breadth, 211; length of upper molar series, m₁–m₃, 62.

**Family PROCYONIDAE** Bonaparte

**Genus PROCYON** Storr

**Subgenus EUPROCYN** Gray

**Procyon proteus** J. A. Allen


Skin in good condition. Skull with right side of braincase and occipital region broken and lacking last lower right molar and first upper right premolar.

**MEASUREMENTS:** Skin: total length, 1041 mm.; tail vertebrae, 356; hind foot, 150. Skull: greatest length, 132; zygomatic breadth, 86; length of maxillary tooth row, 49.3.

**Procyon (Euprocyon) aequatorialis** J. A. Allen

= *Procyon cancricinus aequatorialis* Allen. (*Aequatorialis* is clearly a subspecies of *cancricinus*.)


Skin in fair condition. Skull complete except for lower jaws.

² Not to be confused with the Dease River in British Columbia.
Measurements: Skin (dry): total length, 1070 mm.; tail vertebrae, 315; hind foot, 95. Skull: greatest length, 127; zygomatic breadth, 87; length of maxillary tooth row, 47.7.

Genus Nasua Storr

Nasua narica bullata J. A. Allen

Skin in fair condition. Skull complete.
Measurements: Skin: total length, 1119 mm.; tail vertebrae, 587; hind foot, 133. Skull: greatest length, 140; zygomatic breadth, 78; length of maxillary tooth row, 53.

Nasua narica pallida J. A. Allen

Skin (hunter's pelt) in poor condition, without feet.
Measurements: Skin: total length, 1100 mm.; length of tail, 495.

Nasua narica panamensis J. A. Allen

Skin in fair condition. Skull complete.
Measurements: Skin: total length, 1080 mm.; tail vertebrae, 540; hind foot, 85. Skull: greatest length, 121.8; zygomatic breadth, 60; length of maxillary tooth row, 48.

Nasua narica yucatanica J. A. Allen

Skin in fair condition. Skull complete but with molar teeth decayed.
Measurements: Skin: total length, 1150 mm.; tail vertebrae, 550; hind foot, 100. Skull: greatest length, 130; zygomatic breadth, 76.8; length of maxillary tooth row, 48.7.

Nasua phaeocephala J. A. Allen

Skin in fair condition. Skull with nasals, right side of rostrum, and first upper premolars lacking; otherwise complete.
Measurements: Skin: total length, 814 mm.; tail vertebrae, 319; hind foot (dry), 88. Skull: greatest length, 130.7; zygomatic breadth, 59.2; length of maxillary tooth row, 46.5.

Nasua candace dichromatica Tate

Skull complete but lacking full dentition; middle two upper incisors, right upper canine, both first upper premolars, first lower left premolar, and last lower right molar present.
Measurements: Skull: greatest length, 100 mm.; zygomatic breadth, 47; length of maxillary tooth row, 39.

Genus Nasua Storr

Nasua olivacea lagunetae J. A. Allen

Skin in good condition. Skull complete except for third upper left incisor.

Measurements: Skin: total length, 676 mm.; tail vertebrae, 258; hind foot, 81. Skull: greatest length, 110; zygomatic breadth, 54.2; length of maxillary tooth row, 37.

Genus Potos Cuvier and Geoffroy

Potos flavus chiriensis J. A. Allen


Skin in good condition. Skull complete except for first upper premolar and last upper left molar.

Measurements: Skin: total length, 990 mm.; tail vertebrae, 505; hind foot, 80. Skull: greatest length, 94; zygomatic breadth, 59; length of maxillary tooth row, 26.7.

Potos flavus caucensis J. A. Allen


Skin in fair condition. Skull complete except for second upper right premolar and last upper right molar.

Measurements: Skin: total length, 874 mm.; tail vertebrae, 444; hind foot, 79. Skull: greatest length, 100; zygomatic breadth, 60; length of maxillary tooth row, 25.

Potos flavus tolimensis J. A. Allen


A flat skin without feet.

Measurements: Skin: total length, 1085 mm.; tail vertebrae, 535.

Potos flavus chapadensis J. A. Allen


Skin in fair condition. Skull complete except for first upper left premolar, upper second and third premolars, and last upper molar on right side.

Measurements: Skin: total length, 1123 mm.; tail vertebrae, 551; hind foot, 76. Skull: greatest length, 93.5; zygomatic breadth, 59; length of maxillary tooth row, 25.5.

Genus Bassaricyon Allen

Bassaricyon richardsoni J. A. Allen


Skin in poor condition. Skull complete.

Measurements: Skin: total length, 950 mm.; tail vertebrae, 480; hind foot, 80. Skull: greatest length, 84; zygomatic breadth, 53; length of maxillary tooth row, 28.

Family Mustelidae Swainson

Genus Mustela Linnaeus

Putorius longicauda spadix Bangs


Skin in fairly good condition. Skull complete.

Measurements: Skin: total length, 445 mm.; tail vertebrae, 160; hind foot, 55. Skull: greatest length, 50; zygomatic breadth, 29; length of maxillary tooth row, 15.4.

Putorius arizonensis Mearns


Skin in faded condition, epidermis slipped on head. Skull lacking upper and lower incisors and first lower premolars.

Measurements: Skin: total length, 302 mm.; tail vertebrae, 109; hind foot, 32. Skull: greatest length, 39; zygomatic breadth, 21.5; length of maxillary tooth row, 12.

Mustela frenata effera Hall


Skin in good condition. Skull complete.

Measurements: Skin: total length, 361 mm.; tail vertebrae, 130; hind foot, 41. Skull: greatest length, 44.1; zygomatic breadth, 25.3; length of maxillary tooth row, 13.7.

Mustela frenata texensis Hall


Head, skin, and tail in good condition. Skull complete.

Measurements: Skull: greatest length, 60 mm.; zygomatic breadth, 35.1; length of maxillary tooth row, 17.

Mustela tropicalis nicaraguensis J. A. Allen


Skin in fair condition. Skull complete except for right zygomatic arch.

Measurements: Skin: total length, 460 mm.; tail vertebrae, 180; hind foot, 50. Skull: greatest length, 49.5; length of maxillary tooth row, 15.2.

Mustela frenata boliviensis Hall


Skin in good condition. Skull complete.

Measurements: Skin: total length, 383 mm.; tail vertebrae, 140; hind foot, 43. Skull: greatest length, 45.3; zygomatic breadth, 25; length of maxillary tooth row, 13.5.

Putorius microtis J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 295 mm.; tail vertebrae, 82; hind foot, 37. Skull: greatest length, 40; zygomatic breadth, 20.5; length of maxillary tooth row, 11.1.

Putorius (Arctogale) pygmaeus J. A. Allen


Skin in good condition. Skull complete.

Measurements: Skin: total length, 158 mm.; tail vertebrae, 16; hind foot, 21. Skull: greatest length, 28.5; zygomatic breadth, 13.5; length of maxillary tooth row, 7.5.

Genus EIRA H. Smith

Tayra barbara inserta J. A. Allen

= Eira [barbara inserta (Allen)]. According to


Skin in fair condition. Skull complete except for first upper right incisor, middle left, three right incisors, and last lower molar on right and left sides. The skull belonging to this skin was transposed with that of young male number 24890, which was used in the type description.

MEASUREMENTS: Skin (dry): total length, 1190 mm.; tail vertebrae, 440; hind foot, 107. Skull: condylobasal length, 110; zygomatic breadth, 69; length of maxillary tooth row, 33.7.

\textit{Tayra barbara irara} J. A. Allen


Skin in fair condition. Skull complete.

MEASUREMENTS: Skin: (3' 4''), 1016 mm.; tail vertebrae, (1' 3''), 381; hind foot, (11''), 104. Skull: greatest length, 111; zygomatic breadth, 69.5; length of maxillary tooth row, 32.

\textit{Tayra barbara senilis} J. A. Allen


Skin in fair condition. Skull complete except for upper incisors and second lower premolar.

MEASUREMENTS: Skin: total length, 1100 mm.; tail vertebrae, 470; hind foot, 90. Skull: greatest length, 113; zygomatic breadth, 69.5; length of maxillary tooth row, 31.

GENUS MELES Brisson

\textit{Meles melanogenys} J. A. Allen and Andrews


Flat skin in poor condition without feet and tail. Secured from natives. No skull.

MEASUREMENTS: Skin (dry): length of head and body, 715 mm.

GENUS MELOGALE Geoffroy

SUBGENUS HELICTIS Gray

\textit{Helictis taxilla sorella} G. M. Allen

Amer. Mus. Novitates, no. 358, pp. 8-9, July 10, 1929.

= \textit{Melogale (?) moschata sorella} Allen. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 271, November 19, 1951.


Skin in fair condition. Skull complete except for outer upper left incisors, first and second right and first left lower premolars.

MEASUREMENTS: Skin: total length, 470 mm.; tail vertebrae, 140; hind foot, 40. Skull: greatest length, 70.5; zygomatic breadth, 36.5; length of maxillary tooth row, 23.

GENUS MEPHITIS Cuvier

\textit{Mephitis occidentalis holzneri} Mearns


Skin in fair condition. Skull complete.

MEASUREMENTS: Skin: total length, 665 mm.; tail vertebrae, 273; hind foot, 72. Skull:
greatest length, 80.5; zygomatic breadth, 47.5; length of maxillary tooth row, 24.6.

**Genus SPILOGALE Gray**

*Spilogale phenax arizonae* Mearns


Skull in fair condition. Skull complete except for last lower left molar.

**Measurements**: Skin: total length, 445 mm.; tail vertebrae, 160; hind foot, 60. Skull: greatest length, 57.5; zygomatic breadth, 37; length of maxillary tooth row, 18.5.

**Genus CONEPA TUS Gray**

*Conepatus nicaraguae* J. A. Allen


Skin in poor condition. Skull complete except for all lower incisors and all but two inner and outer left upper incisors.

**Measurements**: Skin: total length, 690 mm.; tail vertebrae, 270; hind foot, 80. Skull: greatest length, 79; zygomatic breadth, 47; length of maxillary tooth row, 23.5.

**Genus LUTRA Brisson**

*Lutra hudsonica sonora* Rhoads


Skin in good condition. Skull complete except for left carnassial and the first two lower right premolars.

**Measurements**: Skin: total length, 1300 mm.; tail vertebrae, 472; hind foot, 146. Skull: greatest length, 114; zygomatic breadth, 75; length of maxillary tooth row, 36.2.

**Lutra latidens** J. A. Allen


Skin in fair condition. Skull badly crushed but restored, all teeth in place except first upper right incisor, first and third upper right premolars, and last lower right molar.

**Measurements**: Skin: total length, 1280 mm.; tail vertebrae, 490. Skull: greatest length, 119+; zygomatic breadth, 76; length of maxillary tooth row, 37.5.

**Lutra colombiana** J. A. Allen


Skin in fair condition. Skull complete.

**Measurements**: Skin: total length, 979 mm.; tail vertebrae, 432; hind foot, 96. Skull: greatest length, 107; zygomatic breadth, 67; length of maxillary tooth row, 34.5.

**Family VIVERRIDAE Gray**

**Genus OSBORNICITIS J. A. ALLEN**

*Osbornicitis piscivora* J. A. Allen


Skin in poor condition. Skull and skeleton complete.

**Measurements**: Skin: total length, 910 mm.; tail vertebrae, 415; hind foot, 90. Skull: greatest length, 108.8; zygomatic breadth, 54.5; length of maxillary tooth row, 44.5.

**Genus CIVETTICTIS** Poock

*Civetitis* *congica* Cabrera  


Skin in good condition. Skull complete except for a bullet hole through braincase.  
**Measurements**: Skin: total length, 1350 mm.; tail vertebrae, 505; hind foot, 140. Skull: greatest length, 154; zygomatic breadth, 79; length of maxillary tooth row, 61.

**Genus PAGUMA** Gray

*Paradoxurus* (*Paguma*) *larvatus hainanus* J. A. Allen  

**Measurements**: Skin (dry): total length, 860 mm.; tail vertebrae, 380; hind foot, 63. Skull: greatest length, 107.5; zygomatic breadth, 58; length of maxillary tooth row, 36.2.

**Genus ARCTICTIS** Temminck

*Arctitis* *whitei* J. A. Allen  
\(^1\) Sic, typographical error in type description; equals *Arctitis*.

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**Measurements**: Skin (dry): total length, 1310 mm.; tail vertebrae, 610; hind foot, 107. Skull: zygomatic breadth, 75; length of maxillary tooth row, 38.5.

**Genus GALIDIA** Geoffroy

*Galidia elegans* dambrensis Tate  


Skin in good condition. Skull complete except that three upper right incisors are broken.  
**Measurements**: Skin: total length, 570 mm.; tail vertebrae, 245; hind foot (s.u.), 67. Skull: greatest length, 65.6; zygomatic breadth, 37.5; length of upper tooth row, c–m², 21.5.

**Genus HERPESTES** Illiger

*Mungos rubrifrons* J. A. Allen  


Skin in good condition. Skull broken in occipital region but otherwise complete.  
**Measurements**: Skin (dry): total length, 550 mm.; tail vertebrae, 215; hind foot, 65. Skull: greatest length, 68; zygomatic breadth, 31; length of maxillary tooth row, 26.
**Genus Mungos** J. A. Allen


= *Herpestes palawanus* (Allen). This species clearly belongs in the genus *Herpestes*. *Mungos* is restricted to the striped mongoose of Africa.


Skull in good condition. Skull complete except for first upper left premolar and second left lower incisor.

**Genus Helogale** Thomas

**Helogale hirtula robusta** J. A. Allen


Skin in good condition. Skull complete, left side of mandible broken but repaired.

**Measurements**: Skin: total length, 460 mm.; tail vertebrae, 209; hind foot, 59. Skull: greatest length, 57.5; zygomatic breadth, 28.5; length of maxillary tooth row, 19.

**Genus Atilax** Cuvier

**Atilax macrodon** J. A. Allen


Skin in fairly good condition. Skull complete.

**Measurements**: Skin: total length, 855 mm.; tail vertebrae, 330; hind foot, 112. Skull: greatest length, 121; zygomatic breadth, 59.5; length of maxillary tooth row, 41.5.

**Genus Xenogale** J. A. Allen

**Xenogale microdon** J. A. Allen

*Jour. Mammal.*, vol. 1, no. 1, p. 27, November 28, 1919.


Skin in good condition. Skull complete except for first upper left premolar and second left lower incisor.

**Measurements**: Skin: total length, 895 mm.; tail vertebrae, 385; hind foot, 105. Skull: greatest length, 111; zygomatic breadth, 59; length of maxillary tooth row, 38.

**Family Hyaeidae** Gray

**Genus Crocuta** Kaup

**Crocuta crocuta fortis** J. A. Allen

*Bull. Amer. Mus. Nat. Hist.*, vol. 47, art. 3, pp. 214–220, pls. 32–34, pl. 35, figs. 1, 3, pl. 36, fig. 1, April 11, 1924.


Skin in fair condition. Skull complete.

**Measurements**: Skin: total length, 1610 mm.; tail vertebrae, 310; hind foot, 250. Skull: greatest length, 291; zygomatic breadth, 191; length of maxillary tooth row, 101.

**Family Felidae** Gray

**Genus Lynx** Kerr

**Lynx rufus**\(^1\) escuinapae J. A. Allen


Skin in fair condition. Skull complete except for nasals.

**Measurements**: Skin (dry): total length, 805 mm.; tail vertebrae, 115; hind foot, 160. Skull: greatest length, 115; zygomatic breadth, 78; length of maxillary tooth row, 38.3.

\(^1\) Sic, typographical error in type description; equals *rufus*.
Genus *Felis* Linnaeus

**Subgenus Leptailurus Severtzov**

*Leptailurus serval faradjius* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skins: total length, 1102 mm.; tail vertebrae, 265; hind foot, 180.
- Skull: greatest length, 119.5; zygomatic breadth, 81.2; length of maxillary tooth row, 37.6.

**Subgenus Leopardus Gray**

*Oncoides pardalis tumatunami* J. A. Allen


Skin in fair condition, epidermis slipped on hind limbs. Skull complete except for both upper molars, second upper right incisors, and all but one lower right incisor.

**Measurements:**
- Skin: total length, 1230 mm.; tail vertebrae, 325; hind foot, 130.
- Skull: greatest length, 153; zygomatic breadth, 99; length of maxillary tooth row, 45.8.

*Felis maripensis* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skin (dry): total length, 1285 mm.; tail vertebrae, 350. Skull: greatest length, 144; zygomatic breadth, 90; length of maxillary tooth row, 43.3.

*Felis sanctaemartae* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:**
- Skin: total length, 927 mm.; tail vertebrae, 356; hind foot, 138.
- Skull: greatest length, 118.5; zygomatic breadth, 76; length of maxillary tooth row, 36.

**Subgenus Noctifelis Severtzov**

*Margay glaucula nicaraguensis* J. A. Allen


Skin in good condition, a bare spot on shoulder. Skull complete except for right parietal bone.

**Measurements:**
- Skin: total length, 1260 mm.; tail vertebrae, 510; hind foot, 116.
- Skull: greatest length, 107.8; zygomatic breadth, 72.2; length of maxillary tooth row, 32.

**Subgenus Oncilla Allen**

*Felis carrikeri* J. A. Allen


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 970 mm.; tail vertebrae, 276; hind foot, 101.
- Skull: greatest length, 85.5; zygomatic
breath, 55; length of maxillary tooth row, 25.

**Margay tigrina elenae** J. A. Allen


Skin in fair condition. Skull complete except for interparietal bone and broken bulla.

**MEASUREMENTS:**

Skin (dry): total length, 800 mm.; tail vertebrae, 260; hind foot, 90.

Skull: greatest length, 86.3; zygomatic breadth, 58; length of maxillary tooth row, 25.

**Margay caucensis** J. A. Allen


= *Felis pardinoides caucensis* (Allen). *Caucensis* is a subspecies of *Felis pardinoides*.


Skin in fair condition. Skull lacking all postorbital region and mandible.

**MEASUREMENTS:**

Skin: (dry): 760 mm.; tail vertebrae, 300; hind foot, 95. Skull: length of maxillary tooth row, 25.

Subgenus **Lynchailurus** Severtzov

**Felis braccata** Cope


Skin number 4724 mounted and in the Academy of Natural Sciences of Philadelphia. Skull complete except for first upper right premolar, upper left carnassial and upper left molar, lower incisors, and left lower canine.

**MEASUREMENTS:**

Skull: greatest length, 94 mm.; zygomatic breadth, 62; length of maxillary tooth row, 28.5. Skin (relaxed): total length, 697 mm.; tail vertebrae, 230; hind limb (approximate), 195.

Subgenus **Herpailurus** Severtzov

**Felis panamensis** J. A. Allen


Skin in good condition. Skull lacking mandible, upper canine, and two outer incisors on right side; bullae broken.

**MEASUREMENTS:**

Skin: total length, 985 mm.; tail vertebrae, 390; hind foot (dry), 128. Skull: greatest length, 95.5; zygomatic breadth, 62; length of maxillary tooth row, 30.

Subgenus **Puma** Jardine

**Felis concolor anthonyi** Nelson and Goldman


Skin in fair condition. Skull complete except for dentition which lacks inner upper right incisor, first upper right premolar, upper left molar, and all lower incisors but the outer right. The lower right canine is broken.

**MEASUREMENTS:**

Skin: total length, 1720 mm.; tail vertebrae, 725; hind foot, 245. Skull: greatest length, 205; zygomatic breadth, 143.5; length of maxillary tooth row, 62.5.

Subgenus **Panthera** Oken

**Panthera pardus iturensis** J. A. Allen


Skin in good condition. Skull complete except for both front upper premolars; right upper canine split.

**Measurements:** Skin: total length, 2120 mm.; tail vertebrae, 835; hind foot, 245. Skull: greatest length, 255; zygomatic breadth, 158; length of maxillary tooth row, 82.5.

**Leo leo azandicus** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 2860 mm.; tail vertebrae, 1030; hind foot, 400. Skull: greatest length, 375; zygomatic breadth, 245; length of maxillary tooth row, 121.

**Leo leo vernayi** Roberts


= *Felis leo vernayi* (Roberts). *Felis* is used here in preference to *Leo*.


Skull damaged by bullet over right eye and left side of braincase, but repaired, lacking mandible. Skin not located.

**Measurements:** Skull: condylobal length, 320 mm.; zygomatic breadth, 248; length of maxillary tooth row, c–p4, left, 109.5; right, 110.8. What appears to be a native prepared skin, erroneously associated with the type skull by Rowland Ward, has the field number 440, a Ward's number 9812, a black mane, and, according to a pencil note by J. E. Hill in catalogue, came from Kavimba.

**Felis onca ucaysae** Nelson and Goldman


= *Panthera* [*Felis*] *onca* *Linnaeus*. According to Pocock, Novitates Zool., vol. 41, p. 410, October, 1939.


Skin in good condition. Skull complete.

**Measurements:** Skin (tanned): total length, 1982 mm.; tail vertebrae, 523; hind foot, 250. Skull: greatest length, 274; zygomatic breadth, 173.8; length of maxillary tooth row, 83.

**Felis onca madeirea** Nelson and Goldman


= *Panthera* [*Felis*] *onca* *Linnaeus*. According to Pocock, Novitates Zool., vol. 41, p. 410, October, 1939.


Skin in good condition. Skull complete except for upper right incisor and posterior part of left side of mandible.

**Measurements:** Skin (tanned): total length, 1610 mm.; tail vertebrae, 465; hind foot, 200. Skull: greatest length, 224; zygomatic breadth, 150.5; length of maxillary tooth row, 71.5.

**Order** PINNIPEDIA **ILLIGER**

**Family** PHOCIDAE **GRAY**

**Genus** PHOCA **LINNAEUS**

**Phoca (Pusa) hispida gichigensis** J. A. Allen


Skin in poor condition. Skull lacking lower jaws.

**Measurements:** Skull (dry): 730 mm.; tail vertebrae, 55.5; hind foot, 176. Skull: greatest length, 139.5; zygomatic breadth, 86.3; length of maxillary tooth row, 37.

**Order Tubulidentata** Huxley

**Family Orycteropodidae** Bonaparte

*Orycteropus eriksoni faradjius* Hatt


Skin in fair condition. Skull and skeleton complete.

**Measurements:** Skin: total length, 1760 mm.; tail vertebrae, 610; hind foot, 270. Skull: greatest length, 253; zygomatic breadth, 98; length of maxillary tooth row, 59.

**Order Proboscidea** Illiger

**Family Elephantidae** Gray

*Elephas africanus pumilio* Noack


Skull complete except for right malar bone, tusks not located.

**Measurements:** Skull: greatest length, 635 mm.; zygomatic breadth, 500; length of upper tooth row, 125.5.

*Elephas africanus Rothschildi* Lydekker


3283. Skeleton. Male, 24 years old. Skin at Tufts College, Medford, Massachusetts. Lydekker took for his type the statuette of “Jumbo” in the British Museum. Taken as a calf in 1861 in some part of the French Sudan, probably to the south of Lake Chad. Also recorded as from Setit River, northwestern Abyssinia.

Skeleton mounted, in good condition and complete except for tusks. Skin mounted.

**Order Hyracoidea** Huxley

**Family Procaviidae** Thomas

*Genus Heterohyrax* Gray

*Procavia chapini* Hatt


Skin in fair condition. Skull complete.

**Measurements:** Skin: total length, 522 mm.; tail vertebrae, 12; hind foot, 68; Skull: greatest length, 95.5; zygomatic breadth, 51; length of maxillary tooth row, 32.

**Order Perissodactyla** Owen

**Family Tapiridae** Burnett

*Genus Tapirus* Brisson

*Tapirus terrestris guiana* J. A. Allen


Skull complete except dentition, lacking all canines except lower right and all incisors except two upper middle and first lower left.

**Measurements:** Skull: greatest length, 415 mm.; zygomatic breadth, 194; length of upper molar series, 147.

**Order Artiodactyla** Owen

**Family Tayassuidae** Palmer
Genus Tagassu Frisch

Pecari tajacu macrocephalus Anthony
Amer. Mus. Novitates, no. 19, pp. 3–4, October 26, 1921.

Skin in fair condition. Skull complete except for the two outer incisors on right side.
Measurements: Skin: total length, 948 mm.; hind foot, 195. Skull: greatest length, 250; zygomatic breadth, 105; length of upper premolar-molar series, 63.

Tagassu pecari beebei Anthony
Amer. Mus. Novitates, no. 19, pp. 1–2, October 26, 1921.

Skin in fair condition. Skull complete.
Measurements: Skin: total length, 1090 mm.; tail vertebrae, 60; hind foot, 224. Skull: greatest length, 293, zygomatic breadth, 121; length of upper premolar-molar series, 85.

Tagassu niger J. A. Allen
= Tagassu niger (Allen).

Skin in fair condition, lacking most of hair on face and sides of body. Skull imperfect, upper side of cranium crushed, lacking right zygoma, upper right canine, all upper incisors, first lower left incisor, and first and second lower right incisors.
Measurements: Skin (tanned): length of head and body, 1080 mm.; hind foot, 200. Skull: greatest length, 221.9 mm.; zygomatic breadth, 104; length of upper premolar-molar tooth row, 65.8.

Family Cervidae Gray

Genus Muntiacus Rafinesque

Muntiacus muntjak nigripes G. M. Allen
Amer. Mus. Novitates, no. 430, pp. 11–12, September 18, 1930.

Skin in good condition. Skull complete.
Measurements: Skin (tanned): total length, 1175 mm.; tail vertebrae, 85; hind foot, 235. Skull: condylobasal length, 181; zygomatic breadth, 86.5; length of upper cheek teeth, 61.

Genus Odocoileus Rafinesque

Odocoileus battyi J. A. Allen
= Odocoileus virginianus battyi Allen. Odocoileus battyi differs only subspecifically from O. virginianus.

Skin in poor condition, without feet. Skull complete except for broken ramus on left side of mandible.
Measurements: Skin: total length, 1574 mm.; tail vertebrae, 216. Skull: greatest length, 248; zygomatic breadth, 115; length of upper premolar-molar series, 69.5.

Odocoileus sinaloe J. A. Allen

Skin in good condition. Skull complete, last molar non-functional.
Measurements: Skin (tanned): total length, 1435 mm.; tail vertebrae, 175; hind foot, 340. Skull: greatest length, 226; zygomatic breadth, 92; length of premolar-molar series, 68.

1 For use of Tagassu in place of Tayassu, see Tate, Bull. Amer. Mus. Nat. Hist., vol. 76, art. 5, p. 223, October 20, 1939.
**Odocoileus rothschildi chiriquensis** J. A. Allen


Skin in good condition. Skull complete.

**MEASUREMENTS:** Skin (tanned): total length, 1300 mm.; tail vertebrae, 95; hind foot, 325. Skull: greatest length, 208; zygomatic breadth, 82; length of upper premolar-molar series, 70.5.

**Genus Mazama** Rafinesque

**Mazama trinitatis** J. A. Allen


Skin in fair condition. Skull complete except for broken left zygomatic arch.

**MEASUREMENTS:** Skin: total length, 1118 mm.; tail vertebrae, 127. Skull: greatest length, 210; length of upper premolar molar series, 63.

**Mazama americana tumatumari** J. A. Allen


Skin in poor condition. Skull complete except for first lower left premolar and first lower right incisor.

**MEASUREMENTS:** Skin: total length, 1190 mm.; tail vertebrae, 155; hind foot, 390. Skull: greatest length, 209; zygomatic breadth, 91.8; length of premolar-molar series, 65.7.

**Mazama americana juruana** J. A. Allen


Skin in poor condition. Skull complete, cracked across braincase, right side of mandible broken.

**MEASUREMENTS:** Skin: total length, 1140 mm.; tail vertebrae, 154. Skull: greatest length, 228; zygomatic breadth, 100; length of upper premolar-molar series, 62.

**Mazama gualea** J. A. Allen


Skin in fair condition. Skull complete.

**MEASUREMENTS:** Skin: total length, 1050 mm.; tail vertebrae, 50; hind foot, 290. Skull: total length, 195; zygomatic breadth, 86.5; length of upper premolar-molar series, 58.

**Mazama fuscata** J. A. Allen


Skin in fair condition. Skull with nasals broken and lacking lower incisors.

**MEASUREMENTS:** Skin (tanned): total length, 1380 mm.; tail vertebrae, 80; hind foot, 320. Skull: total length, 210; zygomatic breadth, 96; length of upper premolar-molar series, 65.

**Mazama zamora** J. A. Allen

---

1 The number of this type skin was changed from 36349 to 36350 which was the number originally given to a skull of a female *Odocoileus gymnotis*. The type skin is unquestionably that of a male and bears a metal tag numbered 36349.

Skin in good condition. Skull complete except for three outer lower right incisors.

**Measurements:** Skin: total length, 1370 mm.; tail vertebrae, 80. Skull: greatest length, 204; zygomatic breadth, 87; length of upper premolar-molar series, 65.5.

**Mazama cita sanctaemartae** J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin (tanned): total length, 1117 mm.; tail vertebrae, 70; hind foot, 290. Skull: greatest length, 183; zygomatic breadth, 79; length of premolar-molar series, 59.8.

**Mazama murelia** J. A. Allen


Skin in poor condition. Skull complete.

**Measurements:** Skin: total length, 980 mm.; tail vertebrae, 100; hind foot, 250. Skull: greatest length, 174; zygomatic breadth, 74; length of upper premolar-molar series, 54.

---

**Genus RANGIFER** Frisch

**Rangifer osborni** J. A. Allen


Skin originally mounted and destroyed. Skull lacking premaxillae, upper molars, and mandible.

**Measurements:** Skin: total length, 2210 mm.; tail vertebrae, 152.4; hind foot, 635. Skull: basal length, 420; zygomatic breadth, 148; length of maxillary tooth row, 99; length of main beam of antler, 1235.

**Rangifer granti** J. A. Allen


Skin in good condition. Skull complete except for lower incisors.

**Measurements:** Skin: total length, 1880 mm.; tail vertebrae, 203; hind foot, 572. Skull: greatest length, 385; condylar length, 375; zygomatic breadth, 141; length of maxillary tooth row, 98.5.

**Rangifer stonei** J. A. Allen


Skin of head and neck originally mounted, in poor condition. Skull incomplete, lacking sphenoidal region, third premolar, and first and second molars on upper left side.

**Measurements:** Skin: total length, 2159 mm.; tail vertebrae, 152; hind foot, 584. Skull: greatest length, 437; zygomatic breadth, 153; length of maxillary tooth row, 95.

**Rangifer pearyi** J. A. Allen


Skin in poor condition, untanned, lacking left front leg and hoofs on all four feet.

**Measurements:** Skin: total length of flat skin, 1660 mm.

*Rangifer* terraenovae J. A. Allen


11775. Skin and skull (originally mounted).

Skin in very bad condition. Skull complete except for base of braincase, cut away in mounting.

**Measurements:** Skull: greatest length, 410 mm.; greatest breadth, 175.3; zygomatic breadth, 145; length of maxillary tooth row, 88.7.

**Family Bovidae** Gray

Genus *Tragelaphus* De Blainville

*Tragelaphus tjaderi* J. A. Allen


Skin in good condition. Skull lacking anterior portion in front of orbits and all upper teeth except last right molar; lower jaw broken on left side.

**Measurements:** Skin: total length, 1450 mm.; tail vertebrae, 220; Skull: condylobasal length, 218; greatest breadth, 97; length of maxillary tooth row, 67. Length of horns, following curvature, 315 mm.

Genus *Sylvicapra* Ogilby

*Sylvicapra grimmia vernayi* Hill


Skin in good condition. Skull badly broken by bullet through right eye and posterior part of palate. Dentition complete except for last upper right molar.

**Measurements:** Skin (tanned): total length, 1030 mm.; tail vertebrae, 75; hind foot, 290. Skull: greatest length, 186.5; zygomatic breadth, 80; length of maxillary tooth row, 57.6.

**Genus Rhynchotragus** Neumann

*Madoqua langi* J. A. Allen


Skin in good condition. Skull complete.

**Measurements:** Skin: total length, 710 mm. Skull: greatest length, 119.8; greatest breadth, 59; length of maxillary tooth row, 37.

**Genus Capricornis** Ogilby

*Capricornis osborni* Andrews
Amer. Mus. Novitates, no. 6, pp. 1–3, March 24, 1921.


Skin in good condition. Skull shot through right eye, badly crushed but restored.

**Measurements:** Skin: total length, 1530 mm.; tail vertebrae, 180; hind foot, 390. Skull: greatest length, 265; zygomatic breadth, 115; length of maxillary tooth row, 82.

*Capricornis sumatraensis montinus* G. M. Allen
Amer. Mus. Novitates, no. 410, pp. 5–6, March 19, 1930.

43039. Skin and skull. Adult male. Lichiang Range, Snow Mountains, Yunnan, China.

Skull in good condition. Skull complete except for first right incisor.

**Measurements:** Skin: total length, 1620 mm.; tail vertebrae, 80; hind foot, 400. Skull: condylobasal length, 295; zygomatic breadth, 129; length of maxillary tooth row, 84.

**Genus Oreamnos** Rafinesque

**Oreamnos montanus columbianus** J. A. Allen


Skin in good condition. Skull complete except for first right incisor.

**Measurements:** Skin: hoof of outer digit, fore foot, 74 by 35 mm., hind foot, 66 by 33. Skull: occipitonasal length, 336; zygomatic breadth, 119; length of maxillary tooth row, 77.

**Oreamnos montanus missoulae** J. A. Allen


Skin originally mounted (probably destroyed); skin of female paratype, number 19337. Skull without jaws, the palate and basicranial region cut out for mounting.

**Measurements:** Skin: hoof of outer digit, fore foot, 56 by 28 mm.; hind foot, 52 by 26. Skull: occipitonasal length, 299; zygomatic breadth, 108; length of maxillary tooth row, 69.

**Genus Ovis** Linnaeus

**Ovis dalli kenaiensis** J. A. Allen


Skin in good condition but lacking right fore foot. Skull complete except for two outer lower incisors on right side.

**Measurements:** Skin (tanned): total length, 1630 mm.; tail vertebrae, 32. Skull: greatest length, 273; zygomatic breadth, 121; length of maxillary tooth row, 73.8.

**Ovis stonei** J. A. Allen
Bull. Amer. Mus. Nat. Hist., vol. 9, art. 7, pp. 111-114, pl. 2, pl. 3, fig. 1, April 8, 1897.


Skin originally mounted (destroyed). Skull lacking palate, basicranial region, and lower jaws.

**Measurements:** Skin: length of head and body, 1676 mm.; tail vertebrae, 89. Skull: length from front of nasals and back of occipital plane, 210; zygomatic breadth, 124; length of maxillary tooth row, 86.5.

**Ovis storcki** J. A. Allen


= **Ovis canadensis nivicola** Eschscholtz. According to Ellerman and Morrison-Scott, Checklist of Palaeartic and Indian mammals, p. 413, November 19, 1951.


Skull lacking mandible, right premaxillae, both zygomatic arches, all teeth except first upper molar on right and left side. No skin.

**Measurements:** Skull: greatest length, 270 mm.; length of maxillary tooth row, 69.
MISSING TYPE SPECIMENS

The following type specimens, or parts thereof, should be in the American Museum of Natural History collection but could not be found or otherwise accounted for at the time of the writing of this paper:

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</tr>
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<td>3922/2991</td>
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<td>Skull</td>
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<tr>
<td>49250</td>
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<td>Skull</td>
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<td><em>Seniocebus pegasus</em> Elliot</td>
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The countries, islands, states, and territories of the type localities are arranged alphabetically under general headings.

Names of genera, species, and subspecies as used by the first describers are listed in taxonomic order.

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